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1,108 results from messages in micbuilders

Re: [micbuilders] RE: HI I'm new and of course I have some questions about a mike I am building.

...modified the mount for inside > the guitar, removed the attempt at building an eq into the mic. Instead > I returned to the original **Alice** design

but changed the resister values > and replaced the 2 1u capacitor with .47u

... This reduced the low end > but perhaps...
[Tom Riggs](#) Sep 22

Re: [micbuilders] RE: HI I'm new and of course I have some questions about a mike I am building.

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[Scott Helmke](#) Sep 22

RE: HI I'm new and of course I have some questions about a mike I am building.

...to my room so I will have to wait to see if there are feedback problems. I posted another copy of the schematic in the standard **Alice** layout so you could see whats going on. I also posted a quick audio recording here <http://soundclick.com/share.cfm?id=12506767...>

[rtriggs1@...](#) Sep 21

RE: HI I'm new and of course I have some questions about a mike I am building.

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[ricardo@...](#) Sep 20

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[rtriggs1@...](#) Sep 20

RE: HI I'm new and of course I have some questions about a

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[rtriggs1@...](#) Sep 6

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[Jerry Lee Marcel](#) Sep 6

RE: HI I'm new and of course I have some questions about a mike I am building.

...noticed on the dual em172 mic schematic that r5 and r4 are 1.1k resistors instead of the 2.2k resistors in the commonly available **alice** circuit. The tsb-99a Caps I want to use in my dual mic setup are less than 680 ohm impedance. In my original build I used the 2...

[rtriggs1@...](#) Sep 6

Re: Tips for shotgun improvement?

...copper mesh. Two A544 batteries (6v each) can fit in the AA battery holder since they are 1/2A size. That provides 12v for the **Alice**-like circuit(s) and perhaps for micropower op-amps. I've decided that I'd use phantom power with a TI TPS7A4901 micropower LDO...

[Jonas](#) Aug 31

Re: [micbuilders] Re: Tips for shotgun improvement?

...DIY may never be perfect, but it would be nice to see a DIY shotgun mic that gives similar performance comparisons as the **Alice** does to expensive commercial mics. The trick would be to find an inexpensive donor. In any event, I may be cutting up cheap chinese...

[Scott Helmke](#) Aug 31

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[just96tearstogo](#) Aug 30

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[umashankar](#) Aug 30

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[just96tearstogo](#) Aug 28

Re: [micbuilders] Tips for shotgun improvement?

...these and built proper shotguns out of them for a low budget film school. remove everything inside and wire up a tsb 160 with an **alice** like circuit and with a little fiddling you will have a decent shotgun microphone.
umashankar From: Jonas To: micbuilders@^\$1 Sent...
[umashankar](#) Aug 28

Newbie possibly stupid question #12

Hi, I want to adapt an **Alice** based microphone to 12v phantom power. I have a nifty little Behringer phantom power box that does both 12v and 48v power and a 12v li-ion battery to power it. Is adapting the **Alice** circuit to 12v as simple as putting in a 680 ohm resistor instead of a 6.8K ohm
[mccannalaw](#) Aug 15

Shure sm87 Schematic?

Does anyone have a circuit for for one? I just curious how different it is from the **alice** type mikes we build.
[saxman068](#) Aug 10

Re: One question on the Alice circuit for twin EM172s

I think this is more for an x/y configuration than a figure 8. If you look through the files you will find a figure 8 schematic from Scott and the connections of the mic/fet are not parallel. [Non-text portions of this message have been removed]
[Tom Riggs](#) Aug 07

Re: One question on the Alice circuit for twin EM172s

...18V XLR inputs so I can eliminate the separate mixer. --- In micbuilders@^\$1, "Johnny Zhivago" wrote: > > Woah, I think that's an **Alice** figure of eight setup. I've never thought of using a couple of **Alice** type mics for M/S etc. Interesting... > > > --- In micbuilders...
[glenn.ashmore](#) Aug 06

Re: One question on the Alice circuit for twin EM172s

Woah, I think that's an **Alice** figure of eight setup. I've never thought of using a couple of **Alice** type mics for M/S etc. Interesting...In micbuilders@^\$2, "Johnny Zhivago" wrote: > > > I'm not sure what you

Johnny Zhivago Aug 06

Re: One question on the Alice circuit for twin EM172s

...the capsule end. --- In micbuilders@^\$1, "Johnny Zhivago" wrote: > >
I'm not sure what you mean by "twin WM172 version" of the **Alice** circuit,
but I think I can answer your question. The EM172 already has a jfet/phase
splitter inside of it so... yeah go ahead...

[glenn.ashmore](#) Aug 06

Re: One question on the Alice circuit for twin EM172s

I'm not sure what you mean by "twin WM172 version" of the **Alice** circuit,
but I think I can answer your question. The EM172 already has a jfet/phase
splitter inside of it so... yeah go ahead...

[Johnny Zhivago](#) Aug 06

One question on the Alice circuit for twin EM172s

All of the variations on Scott Helmke's design that I have found start with a
2N4416 as a phase splitter before the .47uF caps except the twin WM172
version. Is it safe to assume that the EM172 connects directly to the caps?

[glenn.ashmore](#) Aug 05

Re: [micbuilders] Re: Heresy Unbalanced Mic Pre

...source voltage > should be slightly above 1/4 of the rail voltage. >
=====] > Then -as a short hint- why does the **ALICE**
doesn't work as good as the > WUTTKE? I don't know what an **Alice** is,
neither a Wuttke, and I don't know what is better in one or...

[Jerry Lee Marcel](#) Jul 22

WG: [micbuilders] Re: Heresy Unbalanced Mic Pre

...the source voltage should be slightly above 1/4 of the rail voltage.
=====] Then -as a short hint- why does the **ALICE**
doesn't work as good as the WUTTKE? [Non-text portions of this message
have been removed]

[Johannes Herrmann](#) Jul 22

Re: [micbuilders] 2SK208 SMD FET

...s all.) Either way, that's what I've got. Other than making things harder, is there any reason they wouldn't be alright in the **alice** circuit because of the form? I guess I'm just fishing for advice from someone who might have used them---I guess there's some chance...

[Eric Benjamin](#) Jul 20

Re: [micbuilders] Re: 2SK208 SMD FET

yes - the Y-Type for example shows lower V_p than the GR type. **Alice** circuits are intended for FETs with V_p ideally $\sim 3V$ - because the usual trimmer of schoeps circuits...you will see, that (given, you ordered GR types) they will work perfectly fine with Scott's little **ALICE**. > > > I can say

[Johannes Hermann](#) Jul 20

Re: 2SK208 SMD FET

...advantage, if you ask me. > > > And you will see, that (given, you ordered GR types) they will work perfectly fine with Scott's little **ALICE**. > > > I can say this, because i used the same FETs (called 2sk30a back then..., when they came in TO-92 alike packages) with my...

[empr1o](#) Jul 20

Re: [micbuilders] 2SK208 SMD FET

...advantage, if you ask me. And you will see, that (given, you ordered GR types) they will work perfectly fine with Scott's little **ALICE**. I can say this, because i used the same FETs (called 2sk30a back then..., when they came in TO-92 alike packages) with my own designs...

[Johannes Hermann](#) Jul 19

2SK208 SMD FET

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[empr1o](#) Jul 19

Re: Noise question (Alice circuit)

Thanks again for the suggestions here. I'm sure now that the problem was with the FET on the capsule----although I made an improvement to how the

transistor on the board was configured to avoid stress in the future too---I'm quite sure the main problem was the capsule FET. Just wanted to exact
[empr1o](#) Jul 19

Re: [micbuilders] Heresy Unbalanced Mic Pre

...that will fit into an XLR connector
http://www.naiant.com/images/MSH_Kit_Mic.GIF. That schematic is very closely related to the **Alice** design described in your file library. And Naint says, "The FET selection is not critical." And they say they get most all
[Eric Benjamin](#) Jul 19

Heresy Unbalanced Mic Pre

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[Americo Borza](#) Jul 18

Re: Noise question (Alice circuit)

That's great! Thanks for this. The 208s are way cheaper too.
[empr1o](#) Jul 16

Re: [micbuilders] Re: Noise question (Alice circuit)

...indeed. the sk208 is quite the same as the sk30A. I have used sk30A-GR and sk30A-Y with success. I built some schoeps circuits(no **alice**-types!) with them. due to lower crss/ciss and higher Vp you have a good chance to get an improvement compared to the 2k170.. for...
[Johannes Herrmann](#) Jul 16

Re: [micbuilders] Re: Noise question (Alice circuit)

==]On a separate note, I've noticed that the 2SK170 is more or less gone forever now. Not usually the way things go, but any chance the
==]replacement 2SK208 is an improvement? sk170 is still alive afaik:
http://www.linearsystems.com/products_details.php?pr=jfet-amplifiers--
[Johannes Herrmann](#) Jul 16

Re: Noise question (Alice circuit)

...On 07/14/2013 06:09 PM, empr1o wrote: > >>> Please forgive the remedial nature of this post. > >>> > >>> I've built an **Alice** mic that has worked quite well and I've been learning a lot about reducing all kinds of noise (of my own design). > >>> > >>> I...

[empr1o](#) Jul 16

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[Scott Helmke](#) Jul 16

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[empr1o](#) Jul 15

Re: [micbuilders] Noise question (Alice circuit)

...with lacquer. -Scott On 07/14/2013 06:09 PM, empr1o wrote: > Please forgive the remedial nature of this post. > > I've built an **Alice** mic that has worked quite well and I've been learning a lot about reducing all kinds of noise (of my own design). > > I've witnessed...

[Scott Helmke](#) Jul 15

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[empr1o](#) Jul 15

Re: Back to the guitar mic eq

...transsound site is here they deliver to the states or elsewhere for a flat fee. I have been researching more and after looking at the **Alice** circuit closer I see that the one I am using is based on that circuit. I have replaced the 220u caps I originally used in the build...

[saxman068](#) Jul 12

Re: [micbuilders] P12 battery powered alice circuit

...awhile back? > > James McCanna > > On Jul 10, 2013, at 6:31 AM, scott@^\$1 wrote: > >> I've built some "battery box" versions of the **Alice** circuit for >> stereo >> mics and such. It's pretty damn simple - 9v battery, a couple >> resistors, >> a couple capacitors. Unbalanced...

Jul 10

Re: [micbuilders] P12 battery powered alice circuit

...On Jul 10, 2013, at 6:31 AM, scott@^\$1 wrote: > I've built some "battery box" versions of the **Alice** circuit for stereo > mics and such. It's pretty damn simple - 9v battery, a couple resistors...Phantom powering to direct 12V supply) - uses fewer > > parts and is more simple ... well it isn't **Alice**

[James McCanna](#) Jul 10

Re: [micbuilders] P12 battery powered alice circuit

I've built some "battery box" versions of the **Alice** circuit for stereo mics and such. It's pretty damn simple - 9v battery, a couple resistors, a couple capacitors...occurrence :)" > > > Well, not so quick, young padawan. The only thing, you didn't think > of is, HOW to adapt **ALICE** for unbalanced

Jul 10

Re: [micbuilders] P12 battery powered alice circuit

...apparently." (yet another common occurrence :)" Well, not so quick, young padawan. The only thing, you didn't think of is, HOW to adapt **ALICE** for unbalanced battery-work. Apart from that, your idea is not at all foolish... Adaptation IS possible with a few tweaks and as...

[Johannes Herrmann](#) Jul 10

Re: P12 battery powered alice circuit

James, has your laptop really got high quality stereo line i/ps? The IBMs used to, eg the T22,23 series but not the Lenovo latest models. I think

some Macs still do. Most new laptops have terrible stereo line i/ps if they have them at all. What make/model is yours? I describe a very high quality
[ricardo](#) Jul 10

Re: [micbuilders] P12 battery powered alice circuit

...From: Micha Feigin To: micbuilders@^\$1 Sent: Monday, July 8, 2013 6:49 PM Subject: Re: [micbuilders] P12 battery powered **alice** circuit Connecting a microphone to a laptop won't work with balanced outputs as the laptop is unbalanced. You can short output...

[James McCanna](#) Jul 09

Re: [micbuilders] P12 battery powered alice circuit

...On 7/8/2013 19:23, mccannalaw wrote: > > Hi, > > I want to downsize my travel recording kit and make a candy tin sized > basic **Alice**-type circuit in a box and put the capsule (the TSB-165A) > in a small body. If I use 680 ohm resistors and power it with an A23...

[Micha Feigin](#) Jul 09

P12 battery powered alice circuit

Hi, I want to downsize my travel recording kit and make a candy tin sized basic **Alice**-type circuit in a box and put the capsule (the TSB-165A) in a small body. If I use 680 ohm resistors and power it with an A23 12v...

[mccannalaw](#) Jul 09

Re: [micbuilders] Dumb move weird sound from microphone question

...2013 01:40 PM, mccannalaw wrote: >> Hi, >> >> Okay, mea culpa, I did something dumb. I was working on a microphone based on the **Alice** circuit and was testing the latest build. It was working but the capsule was a little off kilter. So, without thinking I nudged...

[Scott Helmke](#) Jul 03

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[James McCanna](#) Jul 03

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[Scott Helmke](#) Jul 03

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[mccannalaw](#) Jul 01

Re: [micbuilders] Alice final steps

...thinner than the former. Regards, Sergei. --- On Tue, 6/25/13, Scott Helmke wrote: From: Scott Helmke Subject: Re: [micbuilders] **Alice** final steps To: micbuilders@^\$1 Date: Tuesday, June 25, 2013, 5:47 PM [snip] Granted steel or aluminum is much harder to solder...

[Sergei Steshenko](#) Jun 26

Re: Alice final steps

...delaying projects because I haven't figured out the perfect solution yet. > > The side vents are somewhat arbitrary. People have built **Alice**-type mics > with just a couple slits on the sides instead of big windows. > > -Scott > > On 06/25/2013 08:23 PM, empr1o wrote...

[empr1o](#) Jun 26

Re: [micbuilders] Re: Alice final steps

...figured out the perfect solution yet. The side vents are somewhat arbitrary. People have built **Alice**-type mics with just a couple slits on the sides instead of big windows. -Scott On 06/25/2013...Scott >> >> On

06/25/2013 06:29 PM empr1o wrote: >>> Hello, >>>> This is Yet
[Scott Helmke](#) Jun 26

Re: Alice final steps

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[empr1o](#) Jun 26

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[Scott Helmke](#) Jun 26

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[empr1o](#) Jun 26

Re: [micbuilders] incessant buzz in background - Alice Mic first build

...Sergei. --- On Sat, 6/8/13, Chin Siang Lim wrote: > From: Chin Siang Lim
> Subject: Re: [micbuilders] incessant buzz in background - **Alice** Mic first build > To: "micbuilders@^\$1" > Date: Saturday, June 8, 2013, 10:20 PM > In a balanced circuit, you want every > component...

[Sergei Steshenko](#) Jun 15

Re: [micbuilders] Re: incessant buzz in background - Alice Mic first build

...information for anyone in this hobby. >>>> >>>> anyways, first time building a microphone, i decided to go with scott helmke's **alice** mic circuit. I've gotten everything laid out bread-boarded and i have finally gotten signal to come through the thing, yet theres...

[Scott Helmke](#) Jun 13

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[adrianyummy1](#) Jun 12

Re: [micbuilders] incessant buzz in background - Alice Mic first build

...frequencies. A poly film capacitor will be much more linear and the microphone will sound "clearer". As an experiment I built an **Alice** with electrolytics in the signal path, and the resulting sound had more mids/lows but with the highs somewhat smeared. Not necessarily...

[Scott Helmke](#) Jun 09

Re: [micbuilders] incessant buzz in background - Alice Mic first build

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[Chin Siang Lim](#) Jun 09

Re: incessant buzz in background - Alice Mic first build

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[adrianyummy1](#) Jun 08

Re: incessant buzz in background - Alice Mic first build

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poc76 > ** > > > > --- In micbuilders@^\$1...
adrianyummy1 Jun 08

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Scott Helmke Jun 06

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incessant buzz in background - Alice Mic first build

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Re: [micbuilders] Re: Recomendation for project.

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poc76 > ** > > > > --- In micbuilders@^\$1...
Santiago Linietsky May 30

Re: [micbuilders] Recomendation for project.

Hi Santiago, A reasonably easy mic build is my own "**Alice**", small diaphragm electret condensor but does sound really good. Parts are a lot cheaper than for a G7 or similar. Definitely usable...

Scott Helmke May 29

Re: [micbuilders] Re: Phantom Supply w.Voltage Tripler Help

...en-variations.html > > >> > > >> I didn't build it, as I decided to work on one problem at a > time with > > >> my **alice** mic ambition. I decided to spend ~\$40.00 on a psu kit from > > >> fivefish. That seemed like a reasonable deal (now I'm trying...

Jerry Lee Marcel May 27

Re: Phantom Supply w.Voltage Tripler Help

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sethinspain May 27

Re: [micbuilders] Re: Phantom Supply w.Voltage Tripler Help

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Jerry Lee Marcel May 27

Re: [micbuilders] Re: Phantom Supply w.Voltage Tripler Help

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David Pickett May 27

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[empr1o](#) May 27

Re: [micbuilders] How to connect a 3 pole mems mic to balanced XLR with p48v power?

...source feeding > pins 2 and 3 through 6k8 resistors. That's the spec for phantom power. > > You have two 100 ohm resistors, in the **Alice**/Shoeps designs they are > usually 100k ohm. > > Should be no real low-pass filtering going on. > > The MEMS mic probably doesn't...

[Micha](#) May 21

Re: [micbuilders] How to connect a 3 pole mems mic to balanced XLR with p48v power?

...through 6k8 resistors. That's the spec for phantom power. You have two 100 ohm resistors, in the **Alice**/Shoeps designs they are usually 100k ohm. Should be no real low-pass filtering going on.

The...0ByCghpOCucU0SXFTXzB1UGxuaUU/edit?usp=sharing > > On

[Scott Helmke](#) May 19

Re: [micbuilders] How to connect a 3 pole mems mic to balanced XLR with p48v power?

...docs.google.com/file/d/0ByCghpOCucU0SXFTXzB1UGxuaUU/edit?usp=sharing On 5/13/2013 18:11, Scott Helmke wrote: > > Micha, > > The **Alice** mic uses a 3-terminal connection to the FET, ground, plus, > minus. I think that should work for any 3-pole mic as long as the...

[Micha](#) May 15

Re: [micbuilders] How to connect a 3 pole mems mic to balanced XLR with p48v power?

Micha, The **Alice** mic uses a 3-terminal connection to the FET, ground, plus, minus. I think that should work for any 3-pole mic as long as the voltage...I currently have a stock of the older version SPM0404UD5, but it's good > to

know in case I need more. > > I'm looking into the **Alice** circuit at the
[Scott Helmke](#) May 13

Re: [micbuilders] How to connect a 3 pole mems mic to balanced XLR with p48v power?

I currently have a stock of the older version SPM0404UD5, but it's good to know in case I need more. I'm looking into the **Alice** circuit at the moment as it seems to do almost what I want, but not sure how to convert it from a two pole electret microphone...

[Micha](#) May 13

Re: [micbuilders] Re: First Alice mic troubleshooting

...pads. >> >> Archie >> >> >> >> --- In micbuilders@^\$2, "ghiatorino" wrote: >>> >>> Hello everybody, >>> >>> i've finished my first **alice** mic project, but sadly it's not working properly. >>> I can get some audio in but, with preamp gain at 80%, i get a very small...

[Teodoro Pizzolante](#) Apr 27

Re: [micbuilders] Re: First Alice mic troubleshooting

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[Scott Helmke](#) Apr 27

Re: First Alice mic troubleshooting

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[ghiatorino](#) Apr 27

Re: First Alice mic troubleshooting

...solder bridges between pads. Archie --- In micbuilders@^\$1, "ghiatorino" wrote: > > Hello everybody, > > i've finished my first **alice** mic project, but sadly it's not working properly. > I can get some audio in but, with preamp gain at 80%, i get a very small (and...

[archieaa1](#) Apr 26

Re: [micbuilders] First Alice mic troubleshooting

...Original Message ----- From: ghiatorino To: micbuilders@^\$1 Sent: Friday, 26 April, 2013 15:14 Subject: [micbuilders] First **Alice** mic troubleshooting
Hello everybody, i've finished my first **alice** mic project, but sadly it's not working properly. I can get some...

[Teodoro Pizzolante](#) Apr 26

Re: [micbuilders] First Alice mic troubleshooting

...Original Message ----- From: ghiatorino To: micbuilders@^\$1 Sent: Friday, 26 April, 2013 15:14 Subject: [micbuilders] First **Alice** mic troubleshooting
Hello everybody, i've finished my first **alice** mic project, but sadly it's not working properly. I can get some...

[Arif IYICIL_T-M](#) Apr 26

First Alice mic troubleshooting

Hello everybody, i've finished my first **alice** mic project, but sadly it's not working properly. I can get some audio in but, with preamp gain at 80%, i get a very small (and...

[ghiatorino](#) Apr 26

Re: JLI capsules

...schematic diagram (see the pdf on the above link). Is this used just for impedance converter? i.e. can i use this capsules with Scott's **Alice** Mic Diagram for capsules without internal FET? > > Any answers appreciated, > thanks > Teo >

[ghiatorino](#) Apr 11

Re: JLI capsules

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[ghiatorino](#) Apr 11

Re: [micbuilders] Re: JLI capsules

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Apr 10

Re: JLI capsules

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[audiomayvin2000](#) Apr 10

Re: JLI capsules

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[archieaa1](#) Apr 10

JLI capsules

...schematic diagram (see the pdf on the above link). Is this used just for impedance converter? i.e. can i use this capsules with Scott's **Alice** Mic Diagram for capsules without internal FET? Any answers appreciated, thanks Teo

[ghiatorino](#) Apr 10

Re: [micbuilders] Re: New here: Open source or schoeps circuit for a FET design I could get?

As a starter project you could use the **Alice** circuit with a TSB-2225 (or is it TSB-2555?!?) capsule, which is a big 1" electret. JLI Electronics has them. - Scott > Thank you...mistaken?? > > --- In micbuilders@^\$1, "Roger" wrote: >> >> >> Files >> >>

Apr 03

Re: New here: Open source or schoeps circuit for a FET design I could get?

...Or am I mistaken?? --- In micbuilders@^\$1, "Roger" wrote: > > > Files >
>
<http://tech.groups.yahoo.com/group/micbuilders/files/alice%20mic%20layou>
> <http://tech.groups.yahoo.com/group/micbuilders/files/DaveBranton/> >
[tablesyrup.shorty](#) Apr 03

Re: New here: Open source or schoeps circuit for a FET design I could get?

Files
<http://tech.groups.yahoo.com/group/micbuilders/files/alice%20mic%20layou>
<http://tech.groups.yahoo.com/group/micbuilders/files/DaveBranton/>
<http://tech.groups.yahoo.com/group/micbuilders...>
[Roger](#) Apr 03

Re: [micbuilders] Making a hydrophone

...To: "micbuilders@^\$1" Sent: Wednesday, 3 April 2013, 13:05 Subject:
RE: [micbuilders] Making a hydrophone Hi Toshiro, i think '**Alice**' is not the
kit you're searching for. Try googling "DIY hydrophone", there are several
good working projects.I made my own stereo...
[Apr 03](#)

RE: [micbuilders] Making a hydrophone

Hi Toshiro, i think '**Alice**' is not the kit you're searching for. Try googling
"DIY hydrophone", there are several good working projects.I...to plug into
my XLR camcorder using easily available UK bought components. I've
been told there's a kit called '**Alice**' but couldn't find a way of searching
[Teodoro Pizzolante](#) Apr 03

Making a hydrophone

Hi, I'd like to make a hydrophone to plug into my XLR camcorder using
easily available UK bought components. I've been told there's a kit called
'**Alice**' but couldn't find a way of searching this group Any advice much
appreciated Thank you, Toshiro123 [Non-text portions of this message have
[Apr 03](#)

RE: [micbuilders] Re: How much Current Does Alice Ckt Draw?

...Regards, Sergei. --- On Fri, 3/29/13, Deg Klektau wrote: From: Deg Klektau Subject: RE: [micbuilders] Re: How much Current Does **Alice** Ckt Draw? To: micbuilders@^\$1 Date: Friday, March 29, 2013, 12:47 PM [snip] The MAX1044 is a good choice as long as you can boost...
[Sergei Steshenko](#) Mar 29

RE: [micbuilders] Re: How much Current Does Alice Ckt Draw?

...Behalf Of tranceracer Sent: Friday, March 29, 2013 11:39 AM To: micbuilders@^\$3 Subject: [micbuilders] Re: How much Current Does **Alice** Ckt Draw? Thanks for the tip Deg! The advantage to using the MAX1044 is that the internal clock can be increased beyond the human...
[Deg Klektau](#) Mar 29

Re: How much Current Does Alice Ckt Draw?

...in theory a quieter ckt but puts out a max of 20mA which should be plenty to power a pair of **Alice** type ckts. The LT1054 IC puts out 100mA which is more than enough for many ckts & costs less...To: micbuilders@^\$8 > > Cc: tranceracer > > Subject: Re: [micbuilders] How [tranceracer](#) Mar 29

RE: [micbuilders] Re: How much Current Does Alice Ckt Draw?

...Behalf Of tranceracer Sent: Friday, March 29, 2013 11:23 AM To: micbuilders@^\$3 Subject: [micbuilders] Re: How much Current Does **Alice** Ckt Draw? Thanks for replies, very helpful. The ckt I'm designing will feed two mics (stereo pair) at the same time. I suspected...
[Deg Klektau](#) Mar 29

Re: How much Current Does Alice Ckt Draw?

...wrote: > > Hey guys I'm designing a 9V to 48V charge pump ckt and was wondering if anyone knew about how much current the typical **Alice** type ckts draws. > > Based on the ckt found here:

tranceracer Mar 29

Re: How much Current Does Alice Ckt Draw?

...The ckt I'm designing will feed two mics (stereo pair) at the same time. I suspected that the **Alice** type ckt was pretty low power but just wanted to confirm. -bK --- In micbuilders@^\$1, "Rev Tony...59 > To: micbuilders@^\$4 > Cc: tranceracer > Subject: Re: [micbuilders] How much Current Does tranceracer Mar 29

RE: [micbuilders] How much Current Does Alice Ckt Draw?

...Martijn van Beurden Sent: 29 March 2013 15:59 To: micbuilders@^\$3 Cc: tranceracer Subject: Re: [micbuilders] How much Current Does **Alice** Ckt Draw? The IEC standard gives 10mA per microphone as max for phantom power according to Wikipedia. AFAIK **Alice**-like is about...
Rev Tony Newnham Mar 29

Re: [micbuilders] How much Current Does Alice Ckt Draw?

The IEC standard gives 10mA per microphone as max for phantom power according to Wikipedia. AFAIK **Alice**-like is about 3-5mA. It depends on the number of microphones you want to feed with the circuit. On 29-03-13 11:45, tranceracer...
Martijn van Beurden Mar 29

How much Current Does Alice Ckt Draw?

Hey guys I'm designing a 9V to 48V charge pump ckt and was wondering if anyone knew about how much current the typical **Alice** type ckts draws. Based on the ckt found here: http://www.geofex.com/circuits/+9_to_33.htm, if the ckt draws less than tranceracer Mar 29

Re: How to tranform electret microphones onto 48 v phantom powered ones?

...photos you want to bring up the larger pictures. I presume that you found the other suggestions in the Files section, or just Google **Alice** mic and you will find plenty of references. Hope that helps. Kindest regards, zephyrmic - -- In micbuilders@^\$1, Raphaël PAREJO...

zephyrmic Mar 17

Re: Re(2): [micbuilders] Re: How to tranform electret microphones onto 48 v phantom powered ones?

...How to tranform electret microphones onto 48 >>v phantom powered ones? >>> >>> >>> >>>I would suggest that you use Scott Helmke's **Alice** Mic circuit, or >>zapnspark's DIY generic Electret Mic.pdf circuit. I have built a couple >>of those, and put the circuit on a...

umashankar Mar 17

Re(2): [micbuilders] Re: How to tranform electret microphones onto 48 v phantom powered ones?

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Raphaël PAREJO- COUDERT Mar 16

Re: [micbuilders] Re: How to tranform electret microphones onto 48 v phantom powered ones?

...Mar 2013 10:25:20 +0000, zephyrmic wusiwus@^\$1 m'a écrit | me ha escrito | wrote: >I would suggest that you use Scott Helmke's **Alice** Mic circuit, or >zapnspark's DIY generic Electret Mic.pdf circuit. I have built a couple >of those, and put the circuit on a small...

Raphaël PAREJO- COUDERT Mar 16

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umashankar Mar 16

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[zephyrmic](#) Mar 16

simulation of schoeps/alice circuit

I put a simple version of the schoeps/**alice** preamp circuit into Paul Falstad's animated circuit simulator and exported it as a tiny URL.
<http://tinyurl.com/schoeps-circuit...>

[Aaron Heller](#) Feb 26

Re: [micbuilders] jfet-less electret preamp models

...makes more sense to compare preamps to other preamps? Does anyone have any numbers regarding the performance of Scott Helmke's **Alice** microphone with the TSB-165A electret capsule or that capsule with any other circuit? SOME THINGS THAT I THINK BUT AM NOT SURE...

[Eric Benjamin](#) Feb 15

Re: Powering Electret Mic question

...and is NOT connected to earth. BTW, SimpleP48WM61 is FULLY balanced. Better balanced than more complex circuits like the Schoeps/**Alice** variants. But balance is only one of the factors in hum & EMI rejection.

[ricardo](#) Feb 15

jfet-less electret preamp models

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[okiejonwilliams](#) Feb 14

Re: [micbuilders] Re: Large Condenser Mic Project

...you could make your own body and do something like build a polarizing supply like those used in the generic china mic and use an **Alice** circuit for the guts which is pretty close to what the Chinese have done. You can buy capsules and bodies from microphone-parts...

Marc McElroy Feb 10

Re: Large Condenser Mic Project

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[will.burdie](#) Feb 10

Re: Large Condenser Mic Project

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[tranceracer](#) Feb 09

Re: Phantom power and grounding question.

...everybody (not the botnet) > > > Cutting to the chase: > > > Is it OK to send 48V phantom power from a PSU grounded to earth to an (**alice**) mic circuit where the xlr will be grounded at a totally separate amplifier? > > > > > Here's the background: > > > A thread...

[empr1o](#) Feb 05

Dynamic Builds & Dual Element Kick Mic

...local hackspace is about to start experimenting with mic building and it's pretty much a given that we will be starting off with an **Alice** Mic build. We hope to learn much from this and subsequent attempts. I have also been contemplating the workings of dynamic microphones...

[givememorenoise](#) Feb 05

Re: [micbuilders] Phantom power and grounding question.

...everybody (not the botnet) > > Cutting to the chase: > > Is it OK to send 48V phantom power from a PSU grounded to earth to an (**alice**) mic circuit where the xlr will be grounded at a totally separate amplifier? > > > Here's the background: > > A thread I started...

[Scott Helmke](#) Feb 05

Re: Alice mic question

...great interest recently and has been a great help in my mic building activities so thanks a load. > > I am currently making an **alice** mic, combining various different approaches in regards of layout etc., and this one is particularly appealing: > > <http://www.groupdiy...>

[zephyrmic](#) Feb 05

Phantom power and grounding question.

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[empr1o](#) Feb 05

Re: Large Condenser Mic Project

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[archieaa1](#) Feb 03

Alice mic question

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[metalwarriorroar](#) Feb 03

Re: [micbuilders] Re: Large Condenser Mic Project

...schematic. Does anyone have suggestions? > > Thanks! > >--- In micbuilders@^\$2, "tranceracer" wrote: >> >> Nowt that I have a few **Alice** mics and Linkwitz under my belt, I'm looking at building a large condenser mic similar to Zanspark's mic. >> >> Where can I purchase...

[Luc Belanger](#) Feb 03

Re: Large Condenser Mic Project

...a good schematic. Does anyone have suggestions? Thanks! --- In micbuilders@^\$1, "tranceracer" wrote: > > Nowt that I have a few **Alice** mics and Linkwitz under my belt, I'm looking at building a large condenser mic similar to Zanspark's mic. > > Where can I purchase...
[tranceracer](#) Feb 03

Large Condenser Mic Project

Nowt that I have a few **Alice** mics and Linkwitz under my belt, I'm looking at building a large condenser mic similar to Zanspark's mic. Where can I purchase a decent quality mic element and which circuit schematics would some of you recommend? Thanks!
[tranceracer](#) Feb 02

Re: [micbuilders] Re: Headamp Question

...at CAD's E100 microphone for ideas. > > If you are thinking the Panasonic wm61 style I would be more likely to > stick with an **Alice** type circuit or maybe use a couple of 5532 op amps? > > Archie > > --- In micbuilders@^\$1 > , Bilbal wrote: > > > While choosing...
[Jerry Lee Marcel](#) Jan 27

Re: Headamp Question

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[zephyrmic](#) Jan 27

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[Bilbal](#) Jan 27

Re: Headamp Question

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Re: [micbuilders] Re: Alice mic and no phantom power

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Re: Alice mic and no phantom power

Re: Alice mic and no phantom power

Re: Alice mic and no phantom power

29/215

empr1o Jan 22

Re: Alice mic and no phantom power

...Message ----- > From: David Pickett > To: micbuilders@^\$2 > Sent: Tuesday, January 22, 2013 11:10 AM > Subject: Re: [micbuilders] Re: **Alice** mic and no phantom power > > > At 09:53 22-01-13, LESLIE WATTS wrote: > > > Now from time to time I fit hum bucking coils to microphones... [archieaa1](#) Jan 22

Re: [micbuilders] Re: Alice mic and no phantom power

...Original Message ----- From: ilya.dontsov To: micbuilders@^\$1 Sent: Tuesday, January 22, 2013 1:23 PM Subject: [micbuilders] Re: **Alice** mic and no phantom power Regarding the enclosure, in my experience 1510/12 chips are quite immune to interference. Much better... [LESLIE WATTS](#) Jan 22

Re: Alice mic and no phantom power

Regarding the enclosure, in my experience 1510/12 chips are quite immune to interference. Much better then some transformer input and output preamps. In the rack enclosure there's often enough space to build the completely hum free system. Smaller boxes will pose some challenges [ilya.dontsov](#) Jan 22

Re: Alice mic and no phantom power

--- In micbuilders@^\$1, David Pickett wrote: > > At 09:53 22-01-13, LESLIE WATTS wrote: > > > Now from time to time I fit hum bucking coils to microphones...so I > > thought I'd try it at the preamp. I made coils of just a few turns > > about 10 mm diameter with magnet wire. I installed this coil on [henryspragens](#) Jan 22

Re: [micbuilders] Re: Alice mic and no phantom power

...Original Message ----- From: David Pickett To: micbuilders@^\$1 Sent: Tuesday, January 22, 2013 11:10 AM Subject: Re: [micbuilders] Re: **Alice** mic and no phantom power At 09:53 22-01-13, LESLIE WATTS wrote: > Now from time to time I fit hum bucking coils to microphones... [LESLIE WATTS](#) Jan 22

Re: [micbuilders] Re: Alice mic and no phantom power

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[David Pickett](#) Jan 22

Re: [micbuilders] Re: Alice mic and no phantom power

...LMWattsTechnology ----- Original Message ----- From: mark To: micbuilders@^\$1 Sent: Sunday, January 20, 2013 6:50 PM Subject: [micbuilders] Re: **Alice** mic and no phantom power @empr1o Sounds like you might benefit from a "pre" kit like the 7th Circle ones or a Hamptone.
[LESLIE WATTS](#) Jan 22

Re: Alice mic and no phantom power

Hello Everyone The 7815 is a positive regulator. The 7915 is a negative regulator. You would one of each for a bipolar supply. If you use these try to use regulators from the same manufacturer as the tracking and noise level can vary. While they do need a few more parts the lm317 positive and
[archieaa1](#) Jan 22

Re: [micbuilders] Re: Alice mic and no phantom power

...From: empr1o >To: micbuilders@^\$1 >Sent: Tuesday, January 22, 2013 8:09 AM >Subject: [micbuilders] Re: **Alice** mic and no phantom power > > > >Mark (and others), about the kits out there, I appreciate that these outfits seem to be doing...
[umashankar](#) Jan 22

Re: Alice mic and no phantom power

Mark (and others), about the kits out there, I appreciate that these outfits seem to be doing nice work. The prices are just a little steep for what I hope to make. Maybe I'd buy a pcb, but I like to buy a few extras of the components and avoid future shipping as I may want to try another. Seems
[empr1o](#) Jan 22

Re: Alice mic and no phantom power

@empr1o Sounds like you might benefit from a "pre" kit like the 7th Circle ones or a Hamptone. That would give you a real nice base knowledge to work off in the future. I have both and am very happy with the quality. I've also build eight of Scott's Alices and ended up with 5 that worked well, and [mark](#) Jan 20

Re: [micbuilders] Re: Alice mic and no phantom power

...From: empr1o To: micbuilders@^\$1 Sent: Sun, January 20, 2013 4:55:24 AM Subject: [micbuilders] Re: **Alice** mic and no phantom power Archie, This sounds nice. I'd love to see the drawings. The commercial PSU boards seem to try to do quite...
[Eric Benjamin](#) Jan 20

Re: Alice mic and no phantom power

Archie, This sounds nice. I'd love to see the drawings. The commercial PSU boards seem to try to do quite a lot. This seems like a parsimonious design. --- In micbuilders@^\$1, "archieaa1" wrote: > > > > > > Hello Everyone > > Keep in mind that as you load up the capacitive filter after the [empr1o](#) Jan 20

Re: Alice mic and no phantom power

Hello Everyone Keep in mind that as you load up the capacitive filter after the rectifier it will charge to 1.4 times the RMS voltage ONLY when unloaded or lightly loaded. As you draw current it will drop to closer to the RMS value. While tight regulation isn't absolutely needed, Tight matching of [archieaa1](#) Jan 20

Re: [micbuilders] Re: Alice mic and no phantom power

...From: empr1o To: micbuilders@^\$1 Sent: Sat, January 19, 2013 5:06:29 PM Subject: [micbuilders] Re: **Alice** mic and no phantom power I think I'm getting there. [Is it crucial that the 1512 circuit of figure 5 in the datasheet has voltage...
[Eric Benjamin](#) Jan 20

Re: Alice mic and no phantom power

This "extra" PSU is what I've been confused about. Are we just running another plug into the wall for this? I've been thinking there is something

basic I don't understand about how to get this strange batch from one 15V (or so) transformer. --- In micbuilders@^\$1, "ricardo" wrote: > > >

[empr1o](#) Jan 20

Re: Alice mic and no phantom power

I think I'm getting there. [Is it crucial that the 1512 circuit of figure 5 in the datasheet has voltage exactly equal to +/-15? Simple enough to just do it I guess, but I didn't really think about using a regulator between the rectifier board. that's why I thought I'd just go for 14.1. Regulating the affair is

[empr1o](#) Jan 20

Re: Alice mic and no phantom power

> http://electronics.dantimax.dk/Kits/Preamps_-_poweramps/11380733512.html This looks like a good implementation of THAT1512/1510. However, it uses evil Schottky diodes for protection. Replace these with cheap 1n4007 as in the later THAT datasheets. The

[ricardo](#) Jan 20

Re: Alice mic and no phantom power

Actually 12 VAC rectified should give you around 17 VDC. When you account for voltage drop at 7815/7915 you'll end up dangerously close to 15V. Any significant load will throw the chips out of regulation. Personally I prefer to play it safe and use "X VAC = X VDC regulated" as a rule of thumb

[ilya.dontsov](#) Jan 19

Re: [micbuilders] Re: Alice mic and no phantom power

Typically I've always done 12-0-12 vac transformer (24vac center-tapped is another way to describe it). That through the rectifier bridge gives you +/-18vdc supplies, which is just fine for feeding 7815/7915 rectifiers for your +/-15vdc rails. -Scott On 01/19/2013 02:38 PM, empr1o wrote: > OK. Some

[Scott Helmke](#) Jan 19

Re: Alice mic and no phantom power

OK. Some of this makes sense to me. I realize I might have misstated my understanding about pairs of +/-15. I need just one pair (of pairs). That is, two -15s and two +15s. One pair to the chip one pair to the fault protection part of the circuit. Maybe I don't understand that well enough but from

empr1o Jan 19

Re: Alice mic and no phantom power

You can find a kit with THAT1512 here,
http://electronics.dantimax.dk/Kits/Preamps_-_poweramps/11380733512.html
http://electronics.dantimax.dk/Kits/Preamps_-_poweramps/11380733512.html
Roger Jan 19

Re: Alice mic and no phantom power

You don't need 2 separate +/-15V feeds, 1 will be enough. 10-0-10 AC trafo won't give you enough juice to get +/-15V DC, you'll need at least 15-0-15 to get the regulators in their working range. Now, there're 2 ways you can get your 48V: 1. Get a trafo with 50V winding and rectify/regulate it. 2. Use [ilya.dontsov](#) Jan 19

Re: Alice Mic Build

...be better to compare the raw recordings or a normalized recording? --- In micbuilders@^\$1, "tranceracer" wrote: > > Just another **alice** mic build w/ my diy pcb. > > Used the Panasonic TSB120A since it has a built in transistor in the capsule w/ the **Alice** ckt. Seems...
[tranceracer](#) Jan 19

Re: Alice mic and no phantom power

I realized when I started looking at those datasheets that something pretty different is going on compared to what I know about power amplifiers! Thanks again---these very helpful messages. I really appreciate it. It is one thing to try to piece the story together from all the pages on the Web, but I
[empr1o](#) Jan 19

Re: [micbuilders] Re: Alice mic and no phantom power

...From: empr1o To: micbuilders@^\$1 Sent: Fri, January 18, 2013 2:34:23 PM Subject: [micbuilders] Re: **Alice** mic and no phantom power Cool thanks. I'll check out those data sheets. I'll be trying to figure out the difference between those...
[Eric Benjamin](#) Jan 18

Re: [micbuilders] Re: Yet Another Alice Question Thread

I don't think there's any risk of confusion between a car ignition and a fire - till the day an idiot uses a fire extinguisher to kill his car's engine, or a fireman looks desperately for a keyhole to put down a fire- , but I know for sure that applying to audio ground the rules edicted for safety regulations is

[Jerry Lee Marcel](#) Jan 18

Re: [micbuilders] Alice mic and no phantom power

...From: empr1o emailproblem1@^\$1> > To: micbuilders@^\$2 > Sent: Fri, January 18, 2013 1:43:02 PM > Subject: [micbuilders] **Alice** mic and no phantom power > > Hi all, > > I'd like to test my **alice** mic circuit but (I'm not sure that) I have a > phantom > power...

[Samuel Aubert](#) Jan 18

Re: Alice mic and no phantom power

Cool thanks. I'll check out those data sheets. I'll be trying to figure out the difference between those and the audio chips like LM3886 and LM1875 that I'm a little familiar with. I've built a non-inverting chipamp so I understand a bit about what's going on in a power supply, but I am surprised that the

[empr1o](#) Jan 18

Re: [micbuilders] Alice mic and no phantom power

...From: empr1o To: micbuilders@^\$1 Sent: Fri, January 18, 2013 1:43:02 PM Subject: [micbuilders] **Alice** mic and no phantom power Hi all, I'd like to test my **alice** mic circuit but (I'm not sure that) I have a phantom power plug in to...

[Eric Benjamin](#) Jan 18

Alice mic and no phantom power

Hi all, I'd like to test my **alice** mic circuit but (I'm not sure that) I have a phantom power plug in to where I'm working on it. I think I did a nice job on the...

[empr1o](#) Jan 18

Re: Yet Another Alice Question Thread

--- In micbuilders@^\$1, Jerry Lee Marcel wrote: > > It looks like the

difference between "alternative views" is mainly a > semantic one, but it creates so much confusion I think it deserves a > comment. --- > I deliberately avoid using the star-ground locution for audio grounding, > and [henryspragens](#) Jan 18

Re: [micbuilders] Re: Yet Another Alice Question Thread

It looks like the difference between "alternative views" is mainly a semantic one, but it creates so much confusion I think it deserves a comment. Apparently, for most qualified anglo-saxon locutors, star-ground is pertinent to the fact that the separate "grounds" (typically chassis, earth, audio [Jerry Lee Marcel](#) Jan 17

Re: Yet Another Alice Question Thread

> I'm intrigued by this cap between pins 1&3 and 1&2. ... > I don't want to raise a 'cap quality matters' issue on top here, but...does cap quality make a difference? The caps need to be soldered AT the XLR terminals with the shortest possible leads. They MUST be CERAMIC. 10n - 22n For an [ricardo](#) Jan 17

Re: Yet Another Alice Question Thread

In case it wasn't clear, I'm wondering if the quality of these bypass caps matters. --- In micbuilders@^\$1, "empr1o" wrote: > > I'm intrigued by this cap between pins 1&3 and 1&2. > > Is this something that is just standard with any mic circuit? Is the idea to just solder the leads between the pins [empr1o](#) Jan 17

Re: Yet Another Alice Question Thread

I'm intrigued by this cap between pins 1&3 and 1&2. Is this something that is just standard with any mic circuit? Is the idea to just solder the leads between the pins on the xlr? Maybe this is something I missed. Again, I'm as new to mic building as one can be. I needed to start somewhere and [empr1o](#) Jan 17

Re: [micbuilders] Re: Yet Another Alice Question Thread

I'm sorry to disagree. Star-ground involves connecting points that are supposed to be equipotential to a central point, via an unnecessary long connection. The best way to avoid voltage between these points is to

establish the shortest and sturdiest possible connection between them, in a
[Jerry Lee Marcel](#) Jan 15

Re: [micbuilders] Re: Yet Another Alice Question Thread

...assignment and seems to provide a > good answer for why the capsule is wired to the fet and resistor. > This, and #1 explains why the **Alice** notes refer to conformal coating > on these parts, although I'm not exactly sure how much that takes or > what could be used. I...

[Jerry Lee Marcel](#) Jan 15

Re: Yet Another Alice Question Thread

--- In micbuilders@^\$1, "empr1o" wrote: > I'm not a 'star-ground true believer,' but one thing I have learned so far is that grounding matters. I think it is possible that the hocus pocus comes from people trying just a little to hard to make sure that the grounding scheme is right and the magic

[henryspragens](#) Jan 15

Re: [micbuilders] Re: Yet Another Alice Question Thread

...assignment and seems to provide a good answer for why the capsule is wired to the fet and resistor. This, and #1 explains why the **Alice** notes refer to conformal coating on these parts, although I'm not exactly sure how much that takes or what could be used. I like...

[Scott Helmke](#) Jan 15

Re: Yet Another Alice Question Thread

...assignment and seems to provide a good answer for why the capsule is wired to the fet and resistor. This, and #1 explains why the **Alice** notes refer to conformal coating on these parts, although I'm not exactly sure how much that takes or what could be used. I like...

[empr1o](#) Jan 15

Re: [micbuilders] Yet Another Alice Question Thread

...possible. Le 13/01/2013 22:46, empr1o a écrit : > > Hello all, > > As a first attempt at a microphone, I've decided to try an **Alice** mic > together. I've assembled most of what I think I'll need. > > I'm curious about a few things. > > #1. Is it crucial that...

[Jerry Lee Marcel](#) Jan 14

Yet Another Alice Question Thread

Hello all, As a first attempt at a microphone, I've decided to try an **Alice** mic together. I've assembled most of what I think I'll need. I'm curious about a few things. #1. Is it crucial that the 1G resistor...

[empr1o](#) Jan 13

Schematic to use in the Rode NT-45C Capsule

...cardioid capsules I would like to use in a tetrahedral configuration, but I truly don't know what circuit to use with them. I've build **Alice** microphone with fairly success (and I actually got quite impressed with their sound using the transound capsules!), but I'm really...

[isaac.raimundo](#) Jan 11

Re: [micbuilders] Alice Mic Build

...unsorted ones :-<... > > By the way, using 2SK170s as substitutes for 2N4116s, will it made some > changes of C's and R's in original **ALICE** schematics? As I'm so poor in > calculating the circuit constants, and it would be much help for me to > show the values if there...

[Scott Helmke](#) Jan 09

Re: [micbuilders] Alice Mic Build

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岩崎 清 [Kiyoshi IWASAKI](#) Jan 07

Re: [micbuilders] Re: Alice Mic Build

...From: ricardo To: micbuilders@^\$1 Sent: Sun, January 6, 2013 4:43:17 PM Subject: [micbuilders] Re: **Alice** Mic Build > We use the linear systems LS 846. It's about right in noise, transconductance, >and input capacitance for about 25...

[Eric Benjamin](#) Jan 07

Re: Alice Mic Build

...over the voltage noise of something like the 170...so you get no noise advantage but large attenuation in a voltage amplifier with **alice** type capsules. Thanks for this Les. Haven't heard of this one before. > The thing is that the 2SK170 has an input capacitance of...

[ricardo](#) Jan 07

Re: [micbuilders] Re: Alice Mic Build

...2SK170 seems to have the same noise floor as the 2N4416A, so for me it's now the "official" **Alice** FET. I've been using the 757-2KS170GRF from Mouser. -Scott On 01/06/2013 03:26 PM, tranceracer...To: micbuilders@^\$2 >> Sent: Sun, January 6, 2013 7:38:07 AM >> Subject: Re: [micbuilders]

[Scott Helmke](#) Jan 06

Re: Alice Mic Build

...From: Scott Helmke > To: micbuilders@^\$2 > Sent: Sun, January 6, 2013 7:38:07 AM > Subject: Re: [micbuilders] **Alice** Mic Build > > > I gave up on the 2N4416 a while back when I could only find noisy ones. > These days I'm using 2SK170, though before...

[tranceracer](#) Jan 06

Re: [micbuilders] Alice Mic Build

...over the voltage noise of something like the 170...so you get no noise advantage but large attenuation in a voltage amplifier with **alice** type capsules. Les ----- Original Message ----- From: Eric Benjamin To: micbuilders@^\$1 Sent: Sunday, January 06, 2013 3:41 PM...

[LESLIE WATTS](#) Jan 06

Re: [micbuilders] Alice Mic Build

...From: Scott Helmke To: micbuilders@^\$1 Sent: Sun, January 6, 2013 7:38:07 AM Subject: Re: [micbuilders] **Alice** Mic Build I gave up on the 2N4416 a while back when I could only find noisy ones. These days I'm using 2SK170, though before too...

[Eric Benjamin](#) Jan 06

Re: [micbuilders] Re: Alice Mic Build

...to grapple with end-of-life on those too. > > > -Scott > > > On 01/06/2013 03:34 AM, tranceracer wrote: > > > Just another **alice** mic build

w/ my diy pcb. > > > > > Used the Panasonic TSB120A since it has a built in transistor in > the capsule w/ the **Alice**...

[Jerry Lee Marcel](#) Jan 06

Re: Alice Mic Build

...I'll have > to grapple with end-of-life on those too. > > -Scott > > On 01/06/2013 03:34 AM, tranceracer wrote: > > Just another **alice** mic build w/ my diy pcb. > > > > Used the Panasonic TSB120A since it has a built in transistor in the capsule w/ the **Alice** ckt...

[tranceracer](#) Jan 06

Re: [micbuilders] Alice Mic Build

...much longer I'll have to grapple with end-of-life on those too. -Scott On 01/06/2013 03:34 AM, tranceracer wrote: > Just another **alice** mic build w/ my diy pcb. > > Used the Panasonic TSB120A since it has a built in transistor in the capsule w/ the **Alice** ckt. Seems...

[Scott Helmke](#) Jan 06

Alice Mic Build

Just another **alice** mic build w/ my diy pcb. Used the Panasonic TSB120A since it has a built in transistor in the capsule w/ the **Alice** ckt. Seems to be working fine. Seems sensitive to plosives, will need a pop filter if using for vocals but seems to pick up acoustic...

[tranceracer](#) Jan 06

Re: High pass switch

...10nF) are the smallish ones. The rolloff switch needs to have two poles. C3 and C4 are likely over 470nF; see the original schoeps/**Alice** circuit. -- rick chinn

[rick chinn](#) Jan 05

Re: Starting again on alice mic build

I'm sorry I can't tell if that was intended seriously or sarcastically! Its hard to tell with written work :D. Either way Happy new year to you too buddy. Happy new year everyone. All the best. --- In micbuilders@^\$1, "pancaps4u" wrote: > > > You're right...I've indeed got my wires

[monstermodels@btinternet.com](#) Jan 01

Re: [micbuilders] Re: building a simple preamp for contact mics

...Somewhere in the area of 3 meg ohms. I've used a fet as an impedance > convertor with great results. You could use something like the **Alice** > circuit for electrets in the application and I suspect you would be very > pleased with the results. You wouldn't need a one...

[Conor Walker](#) 31 Dec, 2012

Re: building a simple preamp for contact mics

...ve used a fet as an impedance convertor with great results. You could use something like the **Alice** circuit for electrets in the application and I suspect you would be very pleased with the results...capsules and new capsules are not available sadly. I've gutted a couple and used them to

[archieaa1](#) 31 Dec, 2012

Re: Starting again on alice mic build

You're right...I've indeed got my wires crossed! As for my rant about panasonics,I've worked exclusively with these WM61A capsules over the last 4 years on a particular project & not any other mics! SORRY! I WISH YOU ALL A VERY PRODUCTIVE & PROSPEROUS NEW YEAR!

[pancaps4u](#) 31 Dec, 2012

Re: Starting again on alice mic build

We have crossed wires I thought where where refering to transound capsules as used in Scotts **Alice** mic circuit. I realise you can use the tint pannasonic capsules in this circuit by doing a modification but im not really interested...

[monstermodels@btinternet.com](#) 31 Dec, 2012

Re: Starting again on alice mic build

Scott is right,but you could still measure the capsule for "capacitor" leakage or short perhaps? "Mad about Sound","Nanopunkt" are a couple among many sellers in the UK.You could "google" or do a search with "Panasonic WM61A (or name of capsule) retail/uk

[pancaps4u](#) 31 Dec, 2012

Re: [micbuilders] Re: Starting again on alice mic build

If it's an **Alice** you're building, with the TSB-165A capsule, then the below advice will not work. The TSB-165A has no built-in FET. -Scott On 12...

[Scott Helmke](#) 31 Dec, 2012

Re: Starting again on alice mic build

Il give that a go thanks. You mentioned Uk suppliers for capsules can you tell me of any? Thanks. --- In micbuilders@^\$1, "pancaps4u" wrote: > > > Yes you can.... measure this capsule against an unused one on a multimeter. Connect Gate/drain, Gate source terminals & note the readings

[monstermodels@btinternet.com](#) 31 Dec, 2012

Re: Starting again on alice mic build

Yes you can.... measure this capsule against an unused one on a multimeter. Connect Gate/drain, Gate source terminals & note the readings between these two. If it oscillates or reads open/short circuit, then the capsule is defective. OR Power/bias the mic capsule on a breadboard (3

[pancaps4u](#) 31 Dec, 2012

Starting again on alice mic build

Hi. I am starting a fresh attempt at building a pair of Alice emics having made a complete mess of my last attempt. I put this down in part to using a crappy soldering iron so I have now ordered a Weller 25W iron. I have also invested in a multi meter which I need for other projects anyway. I

[monstermodels@btinternet.com](#) 31 Dec, 2012

Re: [micbuilders] Re: Replaced built-in fet in wm61a

...capsule where the gate of the original fet had made contact. I wasn't > expecting this to work at all, but after connecting it to an "**Alice**" > circuit as found on Scott Helmke's site the mic worked well. > Unfortunately not better noise performance than the standard...

[Jerry Lee Marcel](#) 30 Dec, 2012

Re: Replaced built-in fet in wm61a

...capsule where the gate of the original fet had made contact. I wasn't expecting this to work at all, but after connecting it to an "**Alice**" circuit as

found on Scott helmke's site the mic worked well. Unfortunately not better noise performance than the standard capsule...
[usermo232000](#) 30 Dec, 2012

Re: Alice circuit problem

soldering: a lot of people think that soldering is like frosting a cake, or putting mud on a sheetrock wall. it is anything but that. Just about every novice I've seen trying to solder has this in their mind, perhaps because they're trying to keep the connection from getting too hot. But, if you don't
[rick chinn](#) 27 Dec, 2012

Re: [micbuilders] Re: Alice circuit problem

...From: Scott Helmke >To: micbuilders@^\$1 >Sent: Wednesday, December 26, 2012 3:45:09 PM >Subject: Re: [micbuilders] Re: **Alice** circuit problem > > >I've got a Weller W60P in my portable tool kit. It's regulated, and you >can change the temperature by changing...
[Luc Belanger](#) 27 Dec, 2012

Re: [micbuilders] Re: Alice circuit problem

I've got a Weller W60P in my portable tool kit. It's regulated, and you can change the temperature by changing tips. But the default 700F is pretty good just the way it is. -Scott On 12/26/2012 02:26 PM, David Pickett wrote: > At 13:49 26-12-12, monstermodels@^\$1 wrote: > >Also,lv noticed
[Scott Helmke](#) 26 Dec, 2012

Re: [micbuilders] Re: Alice circuit problem

At 13:49 26-12-12, monstermodels@^\$1 wrote: >Also,lv noticed that the higher watt rated irons seem to come with >really fat tips and there is no mention that they come with a >selection of tips. Im a bit stuck really! Go to a decent electrical store that stocks Waller (not Radio Shack) and ask. You
[David Pickett](#) 26 Dec, 2012

Re: [micbuilders] Re: Alice circuit problem

...Message ----- From: monstermodels@^\$1 To: micbuilders@^\$2 Sent: Wednesday, December 26, 2012 2:49 PM Subject: [micbuilders] Re: **Alice** circuit problem Also,lv noticed that the higher watt rated irons seem to come with really fat tips and there is no mention that...

LESLIE WATTS 26 Dec, 2012

Re: Alice circuit problem

...Hi. Looking for some help with a a mic project that has so far been in progress for nearly a year! I have finally assembled my **alice** circuit and plugged it into a phantom powered mixing desk to test it. > > > > >
Basically I cant hear anything unless I speak...
monstermodels@btinternet.com 26 Dec, 2012

Re: Alice circuit problem

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monstermodels@btinternet.com 26 Dec, 2012

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mkoijnmkoijn 21 Dec, 2012

Re: The DIY microphone which unsuccessful

...you have no polarizing voltage you will have almost no output. You could try polarizing the capsule like the scheme used in the **Alice** circuit. It will be lower voltage so lower output but, sometimes simple is better. You are using a 2N5551 transistor for the DC...
archieaa1 26 Nov, 2012

Re: [micbuilders] Good electret capsules?

Last I knew, JLI shipped to Europe. So you could buy some TSB-165A capsules and build **Alice**-type mics. -Scott On 11/25/2012 05:13 AM, Matt wrote: > Hi all! I'm building a stereo microphone, and I need two electrets for...
Scott Helmke 25 Nov, 2012

Re: Alice circuit problem

In steps 1 and 2 of my process, thats what you are doing. The melted solder and flux flows onto the connection, and the flux breaks down surface oxidation, and you have just brought the joint to soldering temperature. Now feed more solder into the joint (NOT to the iron) and you are done. That
Rickc@tscnet.com 23 Nov, 2012

Re: [micbuilders] Re: Alice circuit problem

...From: rick chinn To: micbuilders@^\$1 Sent: Thursday, 22 November 2012, 20:08 Subject: [micbuilders] Re: **Alice** circuit problem I just taught a class in soldering technique, and noticed that many novice solderers are afraid to put the iron...
[Steve muir-field](#) 22 Nov, 2012

Re: Alice circuit problem

I just taught a class in soldering technique, and noticed that many novice solderers are afraid to put the iron's tip into firm, intimate contact with the work (connection). They seem to think that this is something that you daub with, somewhat like plastering or frosting a cake. 1. put the solder onto the
[rick chinn](#) 22 Nov, 2012

Re: [micbuilders] Re: Alice circuit problem

...Hi. Looking for some help with a a mic project that has so far been in progress for nearly a year! I have finally assembled my **alice** circuit and plugged it into a phantom powered mixing desk to test it. >>>> >>>>
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[Scott Helmke](#) 22 Nov, 2012

Re: Alice circuit problem

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monstermodels@btinternet.com 22 Nov, 2012

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monstermodels@btinternet.com 22 Nov, 2012

Re: [micbuilders] Alice circuit problem

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[Scott Helmke](#) 22 Nov, 2012

Alice circuit problem

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monstermodels@btinternet.com 21 Nov, 2012

Re: [micbuilders] Re: Overheating componants

...On 11/18/2012 06:05 PM, monstermodels@wrote: >>>> Hi. I have recently picked up an unfinished project attempting to build 2 "**Alice**" type condenser mic's. I have no real electronics experience so its been a pretty steep learning curve! I am still unfinished as...
[Scott Helmke](#) 19 Nov, 2012

Re: Overheating componants

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monstermodels@btinternet.com 19 Nov, 2012

Re: Overheating componants

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monstermodels@btinternet.com 19 Nov, 2012

Re: [micbuilders] Overheating componants

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[Scott Helmke](#) 19 Nov, 2012

Overheating componants

Hi. I have recently picked up an unfinished project attempting to build 2 "**Alice**" type condenser mic's. I have no real electronics experience so its been a pretty steep learning curve! I am still unfinished as...
monstermodels@btinternet.com 19 Nov, 2012

Re: [micbuilders] Re: long tail pair figure 8 and cap test

...Scott On 11/08/2012 04:41 PM, no_special_characters wrote: > Thanks for the response, Scott. > > So, if I'm cribbing from your **Alice** schematic for this, I'm assuming I'll also need to add two of those huge 1000M resistors going to ground off of the leads connecting...
[Scott Helmke](#) 09 Nov, 2012

Re: long tail pair figure 8 and cap test

Thanks for the response, Scott. So, if I'm cribbing from your **Alice** schematic for this, I'm assuming I'll also need to add two of those huge 1000M resistors going to ground off of the leads connecting...There's no FET listed because we were doing that design with Panasonic > type [no_special_characters](#) 08 Nov, 2012

Re: [micbuilders] Re: long tail pair figure 8 and cap test

There's no FET listed because we were doing that design with Panasonic type capsules, built-in FET. Whatever works in an **Alice** ought to work here. All cap values are uF. -Scott On 11/06/2012 02:15 AM, no_special_characters wrote: > Hi, this is my first time...
[Scott Helmke](#) 07 Nov, 2012

Re: alice mic

I 've just finished an **alice** mic built inside the body of a Behringer XM8500: http://tr0x.org/en/xm8500_alice_mic_mki.html I'll upload some audio files, asap :) Andrea. --- In micbuilders@^\$1, "dethrow2" wrote: > > hello i see someone is building an **alice** mic. i would like to see how yours turns out.Im [tr0x81](#) 17 Oct, 2012

Re: 1g resistror

...If you look at some articles people have posted(not just in this group) about building the **Alice**, you will see most folk mount the FET right at capsule and the 1 gig resistor goes from the...micbuilders@^\$4, "monstermodels@ wrote: > > > > > Hi. I am building some condenser [archieaa1](#) 13 Oct, 2012

Re: 1g resistror

...build > > Archie > > > --- In micbuilders@^\$2, "monstermodels@ wrote: > > > > Hi. I am building some condenser mic's using an **alice** circuit. I don't know much about electronics and wondered if the Watt rating matters for such circuits? > > > Thanks. > > > [monstermodels@btinternet.com](#) 13 Oct, 2012

alice mic

hello i see someone is building an **alice** mic. i would like to see how yours turns out.Im also thinking of building two **alice** mics after im finished with my ribbon mic.thanks james and good luck on your project. [dethrow2](#) 12 Oct, 2012

Re: 1g resistror

...with your build Archie --- In micbuilders@^\$1, "monstermodels@^\$2.." wrote: > > Hi. I am building some condenser mic's using an **alice** circuit. I don't know much about electronics and wondered if the Watt rating matters for such circuits? > > Thanks. > [archieaa1](#) 12 Oct, 2012

RE: [micbuilders] 1g resistror

...12 October 2012 17:23 To: micbuilders@^\$4 Subject: [micbuilders] 1g resistor Hi. I am building some condenser mic's using an **alice** circuit. I don't know much about electronics and wondered if the Watt rating matters for such circuits? [Non-text portions of this...]
[Rev Tony Newnham](#) 12 Oct, 2012

1g resistor

Hi. I am building some condenser mic's using an **alice** circuit. I don't know much about electronics and wondered if the Watt rating matters for such circuits? Thanks.
[monstermodels@btinternet.com](#) 12 Oct, 2012

Re: CAD M37 Schematic

...be curious to hear what your M37 is doing or not doing as the case may be. Now, I'm back to the workshop to build a couple of "**Alice**" circuit boards. I've got some TSB capsules and few dead mic cases. I'm hoping to breath some life back into the case for an AKG...
[archieaa1](#) 02 Oct, 2012

Re: [micbuilders] Anyone want to help me figure this out?

...davejrob1 wrote: > Hey Guys, > > I am planning to try my hand at building a few mics. I have settled on > trying to put together an "**Alice** type" design. My intention is to build > three of these. I'd like to build one that will utilize P48 power using > the standard...
[Scott Helmke](#) 08 Aug, 2012

Anyone want to help me figure this out?

Hey Guys, I am planning to try my hand at building a few mics. I have settled on trying to put together an "**Alice** type" design. My intention is to build three of these. I'd like to build one that will utilize P48 power using the standard circuits...
[davejrob1](#) 07 Aug, 2012

Re: [micbuilders] More mic mods... an ADK this time

...and especially in testing batches of mics for ones that deviate from the usual response. Using that setup I ended up changing the **Alice** windscreen slightly, taming a rather big 8kHz spike that sometimes appeared. -Scott

On 07/27/2012 07:02 AM, bgilbertsound wrote...

[Scott Helmke](#) 27 Jul, 2012

Re: [micbuilders] Current consumption Schoeps circuit

...collector current instead of 2mA. Does this mean I can increase >>> the value of R4 to reduce current consumption? Scott Helmke's **Alice** >>> circuit seems to do just this, however not by much. >>> >>> My problem is that I'm running these mics with a Zoom H4n, and...

[Jerry Lee Marcel](#) 24 Jul, 2012

Re: [micbuilders] Current consumption Schoeps circuit

...collector current instead of 2mA. Does this mean I can > increase the value of R4 to reduce current consumption? > Scott Helmke's **Alice** circuit seems to do just this, > however not by much. > > My problem is that I'm running these mics with a Zoom H4n, > and battery...

[bblack](#) 24 Jul, 2012

Re: [micbuilders] Current consumption Schoeps circuit

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[Martijn van Beurden](#) 24 Jul, 2012

Re: [micbuilders] shure 16a capsules in mic build

...doing video. So ive looked on the net and there is bugger all about using these mic's, and id hate to just take something like the **alice** mic design, end up with unusable mics because the cap didnt suit the design. if anyone has good ideas for these mics i want to...

[LESLIE WATTS](#) 24 Jul, 2012

Re: [micbuilders] Current consumption Schoeps circuit

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[Jerry Lee Marcel](#) 24 Jul, 2012

Current consumption Schoeps circuit

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[Martijn van Beurden](#) 24 Jul, 2012

shure 16a capsules in mic build

...doing video. So ive looked on the net and there is bugger all about using these mic's, and id hate to just take something like the **alice** mic design, end up with unusable mics because the cap didnt suit the design. if anyone has good ideas for these mics i want to...

[oliver eason](#) 23 Jul, 2012

Re: SPL tests on Schoeps? also Best Schoeps circuit

...capsules? > > i know Linkwitz modded WM55 capsules can handle up to 150dBSPL but, can the basic Schoeps (lets take Scott Helmke's **Alice** circuit as example) that much SPL well?. > > if any one knows about a document on this that would be great, also advice on the...

[juliankaus](#) 18 Jul, 2012

Re: SPL tests on Schoeps? also Best Schoeps circuit

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[Roger](#) 15 Jul, 2012

Re: SPL tests on Schoeps? also Best Schoeps circuit

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[juliankaus](#) 15 Jul, 2012

SPL tests on Schoeps? also Best Schoeps circuit

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[juliankaus](#) 14 Jul, 2012

Re: [micbuilders] Re: My first microphone - copper tube stereo

...the element? > > thanks! > > --- In micbuilders@^\$1, James McCanna wrote: >> >> Hi, >> >> Thanks for the kind words. This is an **Alice**-type microphone in stereo form. The main body is 1" copper pipe and the heads are 3/4" copper fittings. >> >> I followed the tips...

[Scott Helmke](#) 11 Jul, 2012

Re: My first microphone - copper tube stereo

...back up to the element? thanks! --- In micbuilders@^\$1, James McCanna wrote: > > Hi, > > Thanks for the kind words. This is an **Alice**-type microphone in stereo form. The main body is 1" copper pipe and the heads are 3/4" copper fittings. > > I followed the tips...

[barthie2112](#) 10 Jul, 2012

Re: p48 w/ WM61 diode question, (capacitor help)

...Elliot" wrote: > > > > > kihava, the link you posted didn't work for me...

> > > > The image is here in the files section aa-**alice** -folder and its called

alice mic circuit.jpg. > > > >

<http://tech.groups.yahoo.com/group/micbuilders/files/aa-alice...>

[Elliot](#) 10 Jul, 2012

Re: Zener Noise

...circuits to show this noise cos he filters both upstream & downstream from the Zener. It is one advantage he has over the simpler **Alice** circuit. [*]
The reason for this much better performance is that it forms a very effective filter with your existing 47u.

[ricardo](#) 09 Jul, 2012

Re: p48 w/ WM61 diode question

...micbuilders@^\$2, "Elliot" wrote: > > > kihava, the link you posted didn't work for me... > > The image is here in the files section aa-**alice** - folder and its called **alice** mic cirucuit.jpg. > >
<http://tech.groups.yahoo.com/group/micbuilders/files/aa-alice/> > > > I
Elliot 09 Jul, 2012

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<http://tech.groups.yahoo.com/group/micbuilders/files/aa-alice/> I have had
kihava 09 Jul, 2012

Re: p48 w/ WM61 diode question

...one: <http://f1.grp.yahooofs.com/v1/0HD2T0zUCn-xODPSovTVxRddEh5JFj-69XvIP8TC24Ute332lhYg3F8LgRKuU8dUOudkcItK4YQwGyj1xj3TRnW1v2vQ.alice/alice%20mic%20cirucuit.jpg>
kihava 06 Jul, 2012

Re: [micbuilders] My first microphone - copper tube stereo

Hi, Thanks for the kind words. This is an **Alice**-type microphone in stereo form. The main body is 1" copper pipe and the heads are 3/4" copper fittings. I followed the tips off...
James McCanna 21 Jun, 2012

Omni capsules

So, we fixed the **Alice** mics and they sound amazing. Crazy how much

difference one .13 cent part makes. Good eye again, Scott. Now we're on to the omnis...

[trumpetplayers](#) 21 May, 2012

Re: [micbuilders] Royer tube mod parts question on resistor wattages

...certainly the circuit will require those higher wattages. -Scott On 05/16/2012 11:52 AM, [trumpetplayers](#) wrote: > When I'm done with the **Alice** build, I'm going to try my hand at the royer mod on a mic I don't care for (mxl 2003.) Seeing as I got a part wrong on the **Alice**...

[Scott Helmke](#) 17 May, 2012

Royer tube mod parts question on resistor wattages

When I'm done with the **Alice** build, I'm going to try my hand at the royer mod on a mic I don't care for (mxl 2003.) Seeing as I got a part wrong on the **Alice** build, I want to make sure my parts are correct for the royer mod. I got mouser part numbers off one of the DIY boards. My question...

[trumpetplayers](#) 16 May, 2012

Re: [micbuilders] Re: Alice Mic build fail, photos posted

...trumpetplayers To: micbuilders@^\$1 Sent: Tuesday, May 15, 2012 8:16 PM Subject: [micbuilders] Re: **Alice** Mic build fail, photos posted Wow. Well, I'm 1000x grateful for your ability to spot that and...On 05/15/2012 11:51 AM, [trumpetplayers](#) wrote: > >>>>>> I have posted 29 photos of [James McCanna](#) 16 May, 2012

Re: Alice Mic build fail, photos posted

...Scott > >>>>>> > >>>>>> On 05/15/2012 11:51 AM, [trumpetplayers](#) wrote: > >>>>>> I have posted 29 photos of the two **Alice** mics on Flickr. The link is: > >>>>>> <http://www.flickr.com/photos/78654180@N06> > >>>>>> > >>>>>> I've posted them there rather...

[trumpetplayers](#) 16 May, 2012

Re: [micbuilders] Re: Alice Mic build fail, photos posted

...diaphragm. >>>>>> >>>>>> -Scott >>>>>> >>>>>> On 05/15/2012 11:51 AM, [trumpetplayers](#) wrote: >>>>>> I have posted 29 photos of the

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[Scott Helmke](#) 16 May, 2012

Re: Alice Mic build fail, photos posted

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Re: [micbuilders] Re: Alice Mic build fail, photos posted

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Re: [micbuilders] Re: Alice Mic build fail, photos posted

...From: trumpetplayers >To: micbuilders@^\$1 >Sent: Wednesday, May 16, 2012 4:35 AM >Subject: [micbuilders] Re: **Alice** Mic build fail, photos posted > > > >Is there anyway to conclusively determine if any parts are damaged? Would it be best to order...
[Sergei Steshenko](#) 16 May, 2012

Re: Alice Mic build fail, photos posted

...the diaphragm. > >> > >> -Scott > >> > >> On 05/15/2012 11:51 AM, trumpetplayers wrote: > >>> I have posted 29 photos of the two **Alice** mics on Flickr. The link is: > >>> <http://www.flickr.com/photos/78654180@N06> > >>> > >>> I've posted them there rather than take...
[trumpetplayers](#) 16 May, 2012

Re: Alice Mic build fail, photos posted

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trumpetplayers 16 May, 2012

Re: [micbuilders] Re: Alice Mic build fail, photos posted

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Scott Helmke 16 May, 2012

Re: Alice Mic build fail, photos posted

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trumpetplayers 16 May, 2012

Re: [micbuilders] Alice Mic build fail, photos posted

...but nothing else marking the diaphragm. -Scott On 05/15/2012 11:51 AM, trumpetplayers wrote: > I have posted 29 photos of the two **Alice** mics on Flickr. The link is: > <http://www.flickr.com/photos/78654180@N06> > > I've posted them there rather than take up space here...

Scott Helmke 16 May, 2012

Re: Alice mic build

I now have an audio file comparing the MXL 603s and one of the two **alice** mics. I can either email that to those interested, or upload it wherever would be most convenient...To: micbuilders@^\$3 > > >Sent: Tuesday, May 15, 2012 9:00 PM > > >Subject: [micbuilders] Re: **Alice** mic build > > > > > > trumpetplayers 15 May, 2012

Alice Mic build fail, photos posted

I have posted 29 photos of the two **Alice** mics on Flickr. The link is: <http://www.flickr.com/photos/78654180@N06> I've posted them there rather than take up space here in the group...into the frequency response chart thing. I'm working on getting my recording computer working and will see if I trumpetplayers 15 May, 2012

Re: Alice mic build

...the transistors suggested in the BOM on Scott Helmke's website that are recommended for the **Alice** mic circuit. They are the 2N5087 Central Semi Transistors Bipolar (BJT), mouser part #610-2N5087...To: micbuilders@^\$2 > >Sent: Tuesday, May 15, 2012 9:00 PM > >Subject: [micbuilders] Re: [trumpetplayers](#) 15 May, 2012

Re: Alice mic build

...From: trumpetplayers > >To: micbuilders@^\$2 > >Sent: Tuesday, May 15, 2012 6:30 PM > >Subject: [micbuilders] Re: **Alice** mic build > > > [snip] > > The drivers on my computer are not working correctly due to computer crashes from some bad memory sticks...
[trumpetplayers](#) 15 May, 2012

Re: [micbuilders] Re: Alice mic build

...From: umashankar >To: "micbuilders@^\$1" >Sent: Tuesday, May 15, 2012 7:02 PM >Subject: Re: [micbuilders] Re: **Alice** mic build > > > i suggest a check of the output pair of transistors, you need to match them and they should have as high gain...
[Sergei Steshenko](#) 15 May, 2012

Re: [micbuilders] Re: Alice mic build

...trumpetplayers >To: micbuilders@^\$1 >Sent: Tuesday, May 15, 2012 9:00 PM >Subject: [micbuilders] Re: **Alice** mic build > > > > > This would be challenging for me to get. The best I could do right now...micbuilders@^\$8 >> >> > >Sent: Monday, May 14, 2012 10:51 PM
[umashankar](#) 15 May, 2012

Re: [micbuilders] Re: Alice mic build

...From: trumpetplayers >To: micbuilders@^\$1 >Sent: Tuesday, May 15, 2012 6:30 PM >Subject: [micbuilders] Re: **Alice** mic build > [snip] > The drivers on my computer are not working correctly due to computer crashes from some bad memory sticks so...
[Sergei Steshenko](#) 15 May, 2012

Re: Alice mic build

...best I could do right now would be to get an audio recording of my mxl 603s and another of the **Alice** mic. What I can tell you is that gain on the mxl through my maudio dmp3 pre is usually turned...micbuilders@^\$2" >
>Sent: Tuesday, May 15, 2012 4:46 PM > >Subject: Re: [micbuilders] Re: [trumpetplayers](#) 15 May, 2012

Re: [micbuilders] Re: Alice mic build

...From: Johannes Herrmann >To: "micbuilders@^\$1" >Sent: Tuesday, May 15, 2012 4:46 PM >Subject: Re: [micbuilders] Re: **Alice** mic build > > >
>You'll get it with -in short words- speakers (with flat response) , your microphone and the ARTA software...
[Sergei Steshenko](#) 15 May, 2012

Re: [micbuilders] Re: Alice mic build

...Von: trumpetplayers An: micbuilders@^\$1 Gesendet: 15:32 Dienstag, 15.Mai 2012 Betreff: [micbuilders] Re: **Alice** mic build How would I get a frequency response plot? I'll upload pictures in a bit. Also, this was done on perfboard if that makes...
[Johannes Herrmann](#) 15 May, 2012

Re: Alice mic build

...Von: trumpetplayers > An: micbuilders@^\$2 > Gesendet: 3:21 Dienstag, 15.Mai 2012 > Betreff: [micbuilders] Re: **Alice** mic build > > > Â > My buddy who stuffed the boards and I have both carefully traced the circuits now and verified that the capacitors...
[trumpetplayers](#) 15 May, 2012

Re: [micbuilders] Re: Alice mic build

...Von: trumpetplayers > An: micbuilders@^\$1 > Gesendet: 3:21 Dienstag, 15.Mai 2012 > Betreff: [micbuilders] Re: **Alice** mic build > > > > My buddy who stuffed the boards and I have both carefully traced the circuits now and verified that the capacitors...
[Scott Helmke](#) 15 May, 2012

Re: [micbuilders] Re: Alice mic build

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stuffed the boards and I have both carefully traced the circuits now and verified that the capacitors, transistors...

[Johannes Herrmann](#) 15 May, 2012

Re: [micbuilders] Re: Alice mic build

...From: trumpetplayers >To: micbuilders@^\$1 >Sent: Tuesday, May 15, 2012 7:34 AM >Subject: [micbuilders] Re: **Alice** mic build > > >Hmm. One thing we have not done is deflux the board. [snip] >Ben >

[Sergei Steshenko](#) 15 May, 2012

Re: Alice mic build

...how to mount the FET and resistor > on the capsule directly. Is that how your mics are assembled? > > <http://www.scotthelmke.com/Alice-kit/Capsule-FET/> > > Also he shows testing the board with an inexpensive (panasonic) > capsule with built in FET. > > <http://www...>

[trumpetplayers](#) 15 May, 2012

Re: [micbuilders] Re: Alice mic build

...showing how to mount the FET and resistor on the capsule directly. Is that how your mics are assembled? <http://www.scotthelmke.com/Alice-kit/Capsule-FET/> Also he shows testing the board with an inexpensive (panasonic) capsule with built in FET. <http://www.scotthelmke...>

[Aaron Heller](#) 15 May, 2012

Re: Alice mic build

...the web for things we might have done wrong and are quite baffled. The parts we used are identical to those listed in the current **Alice** mic bom of Scott Helmke's website. Ben --- In micbuilders@^\$1, Sergei Steshenko wrote: > > How about checking in the appropriate...

[trumpetplayers](#) 15 May, 2012

Re: [micbuilders] Re: Alice mic build

How about checking in the appropriate datasheets ? Regards, Sergei.

> _____ > From: trumpetplayers >To: micbuilders@^\$1 >Sent: Monday, May 14, 2012 10:51 PM >Subject: [micbuilders] Re: **Alice** mic build > > [snip] > Assuming [snip]

[Sergei Steshenko](#) 14 May, 2012

Re: [micbuilders] Re: Alice mic build

...From: trumpetplayers To: micbuilders@^\$1 Sent: Monday, May 14, 2012 12:51 PM Subject: [micbuilders] Re: **Alice** mic build We've double-checked the capacitors and zener to make sure that they are correctly oriented.

Assuming the arrow on the...

[James McCanna](#) 14 May, 2012

Re: Alice mic build

...wired the reverse of the other with the FET. The transistors have been triple checked. What else should we check? I've read the **Alice** is a "hot" mic which is not currently the case with ours so clearly we've messed something up. Ben --- In micbuilders@^\$1, "trumpetplayers...

[trumpetplayers](#) 14 May, 2012

Alice mic build

Finally found time to build a pair of **Alice** mics. However, we're having some challenges with the mics. 1. mic has low output, 2. mic lacks high end (turning off low-cut filter...

[trumpetplayers](#) 14 May, 2012

Electret preamp (current consumption) optimisations(?) and questions

...too) , or do I have to change components, R4 for example? 6) Is there a reason for choosing 6,2V to reverse bias the BJTs? The **Alice**-circuit seems to use 36V (32V if current draw from the electret is 0,5mA) and the micpre.pdf schematic in the first Schematics...

[Martijn van Beurden](#) 13 Apr, 2012

Re: 1g resistor replacement

...micbuilders@^\$3, "monstermodels@ wrote: > > > > > Hi. Im struggling to find 1g resistors for a reasonable price for use with **alice** mic's. Could the 1g resistor be replaced for something else more readily available? > > > >

> > Thanks > > > > >

[Roger](#) 10 Apr, 2012

Re: 1g resistor replacement

...In micbuilders@^\$2, "monstermodels@ wrote: > > > Hi. Im struggling to find 1g resistors for a reasonable price for use with **alice** mic's. Could the 1g resistor be replaced for something else more readily available? > > > Thanks > >

[vladimir_godyna](#) 10 Apr, 2012

Re: 1g resistor replacement

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[Zapnspark](#) 09 Apr, 2012

1g resistor replacement

Hi. Im struggling to find 1g resistors for a reasonable price for use with **alice** mic's. Could the 1g resistor be replaced for something else more readily available? Thanks

[monstermodels@btinternet.com](#) 09 Apr, 2012

Re: [micbuilders] 1g resistors in the UK?

...at 19:22, "monstermodels@^\$1" wrote: > Im trying to find some small 1g resistors like the one seen in this pic for use with my **Alice** mic's
<http://www.stefanavalos.com/microphones/smallcardioids/diymic4.jpg> > > I bought all the bits a while ago but lv been so busy...

[Darren Rose](#) 09 Apr, 2012

Re: 1g resistors in the UK?

...micbuilders@^\$1, "monstermodels@^\$2.." wrote: > > Im trying to find some small 1g resistors like the one seen in this pic for use with my **Alice** mic's
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[Mark](#) 08 Apr, 2012

1g resistors in the UK?

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<http://www.stefanavalos.com/microphones/smallcardioids/diymic4.jpg> I bought all the bits a while ago but lv been so busy...
monstermodels@btinternet.com 08 Apr, 2012

Parabolic Reflector plus Head Spaced Boundary Revisited

...control circuit. I still have the 10 TSB165s, SK170s and 1 gig resistors. I am now looking for a mic project using these. Clearly **Alice** mics are a possibility. Ideally the project should be suitable for wildlife recording rather than music. Any Ideas? Cheers, TomR...
[tk7859](#) 01 Apr, 2012

Re: Alice Mic capacitor substitute?

...Electrolytic, 0.36 cents. --- In micbuilders@^\$1, "trumpetplayers" wrote:
> > Finally getting back to putting together a mouser order for **Alice** mic parts. Only problem is, now Mouser is out of stock on the Nichicon 100uf Electrolytic Capacitor (674-TVX1V101MAD). They don...
[anuhn83](#) 29 Mar, 2012

Re: [micbuilders] Alice Mic capacitor substitute?

...over the last year or two because of product end-of-life. -Scott > Finally getting back to putting together a mouser order for **Alice** mic > parts. Only problem is, now Mouser is out of stock on the Nichicon 100uf > Electrolytic Capacitor (674-TVX1V101MAD). They...
scott@scotthelmke.com 29 Mar, 2012

Alice Mic capacitor substitute?

Finally getting back to putting together a mouser order for **Alice** mic parts. Only problem is, now Mouser is out of stock on the Nichicon 100uf Electrolytic Capacitor (674-TVX1V101MAD). They don't list a comparable part. Anyone have any suggestions? The parts aren't listed as arriving for [trumpetplayers](#) 29 Mar, 2012

Eagle files

Hi All, I just added the Eagle schematic and verboard layout for the **alice**-based mics that I've been building. They use a surface-mount 1G resistor &

a FET in a little metal can with four legs (not sure...

[dbranton@xtra.co.nz](#) 21 Mar, 2012

Re: Xlr neutrik jack hack

I built a rough version of the **Alice** with a connector similar to the one you mentioned. I cut it off short, which meant cementing the plastic mount which holds the...

[chris_mellinger](#) 15 Mar, 2012

Re: [micbuilders] Re: Xlr neutrik jack hack

...searched all over the Internet on this with no luck. Does anyone have information on hacking a neutrik xlr cable end to use with the **Alice** mic, or is it best to pony up the \$11 for a switchcraft b3m? >> > >> > >> > >> > >> > >> > [Non-text portions of this message...

[umashankar](#) 09 Mar, 2012

Re: Xlr neutrik jack hack

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[trumpetplayers](#) 09 Mar, 2012

Re: [micbuilders] Xlr neutrik jack hack

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[Eric Benjamin](#) 09 Mar, 2012

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[umashankar](#) 09 Mar, 2012

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[trumpetplayers](#) 09 Mar, 2012

Re: [micbuilders] building an alice mic

...should be fine. -Scott On 03/08/2012 01:21 PM, trumpetplayers wrote: > I'm putting together a mouser order for parts for a couple **alice** mics. But I have a couple of questions. Mouser is currently backordered on the 271-330 330ohm resistors (250 volts). Does anyone...

[Scott Helmke](#) 09 Mar, 2012

building an alice mic

I'm putting together a mouser order for parts for a couple **alice** mics. But I have a couple of questions. Mouser is currently backordered on the 271-330 330ohm resistors (250 volts). Does anyone...

[trumpetplayers](#) 08 Mar, 2012

Re: [micbuilders] Newbie question about using perf board

...a circuit and you have a good layout, it goes together almost as fast as a PCB. And without the expense of making PCBs! For the **Alice** I use unclad garolite, which I drill with only the holes I used for the perfboard layout. - Scott On 02/27/2012 09:02 PM, Bhakakhan...

[Scott Helmke](#) 28 Feb, 2012

Re: [micbuilders] Newbie question about using perf board

At 16:43 27/02/2012, monstermodels@^\$1 wrote: >My perf board has finally arrived from China so I can get on with my >making my **Alice** mic circuits. > >I have never made circuits before. I'm fairly confident about >following the circuit diagram but unsure how the...

[David Pickett](#) 28 Feb, 2012

Re: Newbie question about using perf board

...23:43, monstermodels@^\$2.. a écrit : > > > > My perf board has finally arrived from China so I can get on with my > > making my **Alice** mic

circuits. > > > I have never made circuits before. I'm fairly confident about > > following the circuit diagram but unsure...
monstermodels@btinternet.com 27 Feb, 2012

Re: [micbuilders] Newbie question about using perf board

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[Bhakakhan](#) 27 Feb, 2012

Re: [micbuilders] Newbie question about using perf board

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[Jerry Lee Marcel](#) 27 Feb, 2012

Newbie question about using perf board

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monstermodels@btinternet.com 27 Feb, 2012

Re: [micbuilders] omni sdc mic schematic

...and also perused Stefan Avalos's website looking at schematics. What changes, if any, would I need to make to the Scott Helmke **Alice** schematic to use an omni rather than cardioid capsule, specifically the panasonic capsule? This will be my first ever mic build...
[Scott Helmke](#) 24 Feb, 2012

Re: omni sdc mic schematic

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[trumpetplayers](#) 23 Feb, 2012

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[Bhakakhan](#) 23 Feb, 2012

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[Ben Parke](#) 23 Feb, 2012

Re: Cheap tubing in the UK?

...water pipe" has an outside diameter of 1.125 > > > inches... and fits a S very nicely. > > > > > Which is how I started building **Alice** mics with the stuff... I went to > > > the hardware store with this B3M I'd found, and started looking for pipe > > > or tubing...

monstermodels@btinternet.com 19 Feb, 2012

Re: Cheap tubing in the UK?

...If you are aiming for recording church organs, I think you should look for omni capsules. Roger > .47uF is plenty good for the **Alice**, or any decent mic. If you're really > worried about getting the lowest lows you might use 1.0uF. > > -Scott >

[Roger](#) 19 Feb, 2012

Re: [micbuilders] Re: Cheap tubing in the UK?

...you? Take them to the hardware store and see what you can find. .47uF is plenty good for the **Alice**, or any decent mic. If you're really worried about getting the lowest lows you might use 1.0uF...diameter of 1.125 >> inches... and fits a S very nicely. >> >> Which is how I started building **Alice** mics

[Scott Helmke](#) 19 Feb, 2012

Re: Cheap tubing in the UK?

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monstermodels@btinternet.com 19 Feb, 2012

Re: Cheap tubing in the UK?

Well, the Schoeps/**Alice** circuit can use smaller value capacitors. Schoeps uses 0.1 μ F. Roger --- In micbuilders@^\$1, "monstermodels@^\$2.." wrote...

[Roger](#) 19 Feb, 2012

Re: Cheap tubing in the UK?

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monstermodels@btinternet.com 19 Feb, 2012

Re: [micbuilders] Re: Cheap tubing in the UK?

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[Scott Helmke](#) 19 Feb, 2012

LXMIC Aliexpress Store link

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[John Gu](#) 14 Feb, 2012

Re: UK source for TSB-165A?

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ECM-LX26070W. > > > > > We have Paypal account...
monstermodels@btinternet.com 14 Feb, 2012

Re: [micbuilders] Re: Is there a source of Abrafiles in USA?

About the dremel cut-off bits: I used one to cut my **Alice** ribbon mic body,
but I've got a cheap, battery-powered dremel. It would cut it all right, but I
could only get an inch or two before...

[Greg Albing](#) 13 Feb, 2012

Re: Alice circuit with wm 61a?

Scott, once again thanks a lot for your help! --- In micbuilders@^\$1,
"monstermodels@^\$2.." wrote: > > In order to use a WM61a capsule
(linkwitz modded) with an **alice** circuit, what components must be changed
or left out? > > I understand that the 1g resistor can be left out. > > The
monstermodels@btinternet.com 11 Feb, 2012

Re: Best capsule for drum overheads

...it would be something I could try my hand at. For now I have a pair of
wm-61a capsules and all the necessary parts to build some **Alice** type
circuits. I was surprised how small the wm 61a capsules where! All those
posts about it being fiddly to solder to them, let...

monstermodels@btinternet.com 11 Feb, 2012

Re: UK source for TSB-165A?

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ECM-LX26070W. > > > > > We have Paypal account...

[Johannes Herrmann](#) 11 Feb, 2012

Re: Best capsule for drum overheads

...am in the process of getting the parts together to build some mic's. What
capsule would be best for this purpose for use in an **Alice** circuit? Without
knowing what commercial microphones you consider to be great for this

application, this question is impossible...

recordinghacks 11 Feb, 2012

Re: UK source for TSB-165A?

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John Gu 11 Feb, 2012

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Scott Helmke 11 Feb, 2012

Re: [micbuilders] Re: Uni-ECM-LX3050

...micbuilders] Re: Uni-ECM-LX3050 >> >> >> >> >Â>> >> >Has
anyone tried this guys capsules? Im considering trying one in an **alice** mic.
>> >> >> >--- In micbuilders@^\$6, "Gary He" wrote: >> >> >> >> Hi Les >>
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umashankar 11 Feb, 2012

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monstermodels@btinternet.com 11 Feb, 2012

Re: [micbuilders] Alice circuit with wm 61a?

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Scott Helmke 11 Feb, 2012

Alice circuit with wm 61a?

In order to use a WM61a capsule (linkwitz modded) with an **alice** circuit, what components must be changed or left out? I understand that the 1g resistor can be left out. The **Alice** circuit includes a FET. I understand that there is a FET in the Panasonic capsule also?

monstermodels@btinternet.com 11 Feb, 2012

Re: Best capsule for drum overheads

...am in the process of getting the parts together to build some mic's. What capsule would be best for this purpose for use in an **Alice** circuit? > >

Thanks/ >

[Johannes Herrmann](#) 10 Feb, 2012

Best capsule for drum overheads

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monstermodels@btinternet.com 10 Feb, 2012

Re: [micbuilders] Re: Alternative parts for Alice mic

...2012 19:20, schrieb [monstermodels@](mailto:monstermodels@btinternet.com) > > > > > > > > Hi. Electronics novice here. I am buying all the > > > > parts for an **Alice** mic circuit. I am struggling to > > > > source certain items as cheaply as other such as > > > the 2SK170. Is there a more...

[bblack](#) 10 Feb, 2012

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Re: Alternative parts for Alice mic

Re: [micbuilders] Alternative parts for Alice mic

Re: UK source for TSB-165A?

Re: Uni-ECM-LX3050

Alternative parts for Alice mic

71/215

Re: UK source for TSB-165A?

...order quantity and if you accept paypal. > > Also are these capsules any good for recording drums? I would be using them with the **alice** mic circuit..... > > Opinions please! >
[Johannes Herrmann](#) 10 Feb, 2012

Re: UK source for TSB-165A?

Alice mic always used the capsules are Uni-ECM-LX16573W ,Uni-ECM-LX16162W , Uni-ECM-LX26070W. We have Paypal account. Many friends who in this Group tested our capsules. This time the Uni-ECM-LX16573W ,Uni-ECM-LX16162W just need 4USD/pcs for the quantity 50pcs. Each type
[John Gu](#) 10 Feb, 2012

Re: [micbuilders] Re: Uni-ECM-LX3050

...12 PM >Subject: [micbuilders] Re: Uni-ECM-LX3050 > > > > >Has anyone tried this guys capsules? Im considering trying one in an **alice** mic. > >--- In micbuilders@^\$3, "Gary He" wrote: >> >> Hi Les >> >> We always use the MSN do not have skype. >> I just apply one...
[umashankar](#) 10 Feb, 2012

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[monstermodels@btinternet.com](#) 10 Feb, 2012

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[monstermodels@btinternet.com](#) 10 Feb, 2012

Re: Making a pair of condenser mic's for the first time

...most > > microphones, of course. But the downside is that they don't pass audio > > as cleanly as the bulkier film caps. So in the **Alice**

microphone > > (variation on the Shoeps circuit) there are a couple of big film caps > > that the audio passes through, and then...
monstermodels@btinternet.com 07 Feb, 2012

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monstermodels@btinternet.com 06 Feb, 2012

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[Scott Helmke](mailto:scott@scotthelmke.com) 05 Feb, 2012

Re: [micbuilders] Re: Coating leads on JFET: Suggestions?

...all of the 1Gohm neighborhood. For the first few mics I just used the same hardware store spray lacquer that I used to coat the **Alice** bodies, which worked just fine as well. Don't use it where it'll clog up a capsule vent, of course. But I end up coating the entire...
scott@scotthelmke.com 13 Jan, 2012

Re: Coating leads on JFET: Suggestions?

...to see if applying a coat of _____, would help the noise produced from moisture or the air, on the bare leads of a JFET in the **Alice** mic, or the FET in other types of mics. > > Will polyurethane work? > > And if this is an advised thing to do, in what applications...
userno232000 13 Jan, 2012

Coating leads on JFET: Suggestions?

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[anuhn83](#) 13 Jan, 2012

Re: where to start

...Hello Mark > ... and very welcome in here. > > I may suggest you the following for a "fresh" start: > > <http://www.scotthelmke.com/alice-mic.html>
> > <http://www.johncon.com/john/wm61a/> > > Or: > In our Files Section: > FILES/ZAPNSPARK/ > > FILES/RICARDO/LN_PRIMER...
[bluejinn](#) 27 Dec, 2011

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[Johannes Herrmann](#) 22 Dec, 2011

Re: Wanted: Polarized Large Diaphragm Version of Alice Mic

--- In micbuilders@^\$1, "anuhn83" wrote: > > Just wondering if any of you experts can design a version of the **alice** mic, with a polarizing voltage for a Large diaphragm capsule. > > Let me know what you think. > > > cheers
> You could put two...
[userno232000](#) 16 Dec, 2011

Wanted: Polarized Large Diaphragm Version of Alice Mic

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[anuhn83](#) 16 Dec, 2011

RE: [micbuilders] Re: stealth microphone for Microtrack2

...or just use a battery. Also phantom power and electret mic power are different things. If you have phantom power you can use an **Alice** type circuit, but this is getting more complex. The simplest solution would be the tsb120 with battery box, unless the Microtrak...
[Rev Tony Newnham](#) 12 Dec, 2011

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[Bob Andres](#) 12 Dec, 2011

Re: [micbuilders] Re: Advice needed for nature recordist with EM172

...Whew, lots of twists and turns in a single day's argument! > > > In a rush to get out the door, but I will say that I built an **Alice** mic > > with ~10uF electrolytics in place of .47uF polypropylene film. The > > sound was definitely different, and it wasn't significantly...

[Bhakakhan](#) 28 Nov, 2011

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[Sergei Steshenko](#) 28 Nov, 2011

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[Scott Helmke](#) 28 Nov, 2011

Re: FET Part Numbers and FET selection

...resistor is changed until you drop the current through the FET to one half Idss. > That's all fine. My question is this. In the **Alice** schematic there are two resistors connected to the FET (not counting the 1G resistor). One connected to the source, and the other...

[ricardo](#) 08 Nov, 2011

Re: FET Part Numbers and FET selection

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[dbranton@xtra.co.nz](#) 08 Nov, 2011

Re: [micbuilders] Re: FET Part Numbers and FET selection

...Jim Williams (the non-deceased one) recommends them, in fact he said > somewhere RODE uses selected ones in the NT-01A. The **Alice** circuit > does not need I_{dss} selection beyond there being enough. The 2SK30 and > 2SK118 are fine as are many others. > > [Non...

[John Lundsten](#) 07 Nov, 2011

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[Bhakakhan](#) 07 Nov, 2011

Re: FET Part Numbers and FET selection

--- In micbuilders@^\$1, "ricardo" wrote: > > > I cannot recommend J305/J310. > > Which brand? What problems have you found with them? > Jim Williams (the non-deceased one) recommends them, in fact he said somewhere RODE uses selected ones in the NT-01A. The **Alice** circuit does

[usermo232000](#) 07 Nov, 2011

Re: [micbuilders] Re: FET Part Numbers and FET selection

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[Bhakakhan](#) 07 Nov, 2011

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FET Part Numbers and FET selection

Hi All, I've just completed one of my planned four **alice**-based microphones and I'm very pleased with the results. Sounds great, (some) inexpensive parts, etc...1M is only 0.1% of the 1G. My thinking is this. Since the voltage of the zener is 12v (looking at the **alice** schematic now), and the gate of the [dbranton@xtra.co.nz](#) 07 Nov, 2011

Re: Using Knowles SPM0404UD5 acoustic sensor with usb mic pre

...those sensors. > > > > Although My circuitry is proprietary, I can tell you that these > > sensors will work fine with a Schoeps or **alice** type circuit > > as shown in the files section here. You can use much lower bias resistors. > > > > You must AC couple with a capacitor...

[Mike Rooke](#) 06 Nov, 2011

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[LESLIE WATTS](#) 06 Nov, 2011

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[poorlyconditioned](#) 05 Nov, 2011

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> Thanks for the reply. Looks like I might try to build the **Alice** circuit and power the sensor with 2 AA batteries. I have some more questions. > > By lower bias resistors do mean the 1G resistor...

[jonathan_morey](#) 20 Oct, 2011

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[LESLIE WATTS](#) 20 Oct, 2011

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at...f1.grp.yahooofs.com/v1/cFafTjg0GEs_38OfiyIxOjiHxPBpjYRWbCE2XR02s

[jonathan_morey](#) 20 Oct, 2011

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[LESLIE WATTS](#) 19 Oct, 2011

Re: [micbuilders] Re: large diaphragm condenser capsules - why ?

...performance. > >The one real standout in the crowd is the Transsound TSB-165. As I recall from >the measurements I did on Scott's **Alice** microphone, the self noise was about 16 >dBa. That's perfectly good performance but we don't necessarily know that it >couldn't...
[Eric Benjamin](#) 06 Oct, 2011

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[LESLIE WATTS](#) 06 Oct, 2011

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[Luc Belanger](#) 06 Oct, 2011

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[Sergei Steshenko](#) 06 Oct, 2011

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[Eric Benjamin](#) 06 Oct, 2011

Re: Rookie question

...is used in these capsules? > > Eric > > On 9/26/2011 1:25 PM, Bhakakhan wrote: > > P.S.: Of course you rewire the capsule in the **alice**-mic-schematic a > > slightly different way, than a simple source follower. It is called > > Phase-Splitter and provides the additional...

[Roger](#) 27 Sep, 2011

Re: [micbuilders] Rookie question

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[Eric Vogel](#) 27 Sep, 2011

Re: [micbuilders] Rookie question

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[Bhakakhan](#) 26 Sep, 2011

Re: [micbuilders] Rookie question

...wrong thread. Like I said, > rookie!) > > It looks to me like the Linkwitz mod allows configuring a Panasonic > capsule for an **Alice**-style circuit. Is there any advantage to that (e.g. > distortion, noise, etc.)? The linkwitz mod, rewires the fet from common source...

[Bhakakhan](#) 26 Sep, 2011

Rookie question

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[Eric Vogel](#) 26 Sep, 2011

Re: [micbuilders] Re: Final specs of TSB-165A Alice Microphone?

...From: qw1209po To: micbuilders@^\$1 Sent: Sunday, August 14, 2011 12:36 PM Subject: [micbuilders] Re: Final specs of TSB-165A **Alice** Microphone? Thanks Paul. It pretty much shows that with that much variation between capsules, they have to be hand matched as much...

[LESLIE WATTS](#) 14 Aug, 2011

Re: Final specs of TSB-165A Alice Microphone?

...micbuilders@^\$1, Paul Doornbusch wrote: > > I just uploaded a file showing some measurements on my tsb-165a soundfield mic, with Schoeps/**Alice** type of circuits for each of the capsules. There is an on-axis measurement for each of the 4 capsules and measurements of the off...

[qw1209po](#) 14 Aug, 2011

[micbuilders] Re: Final specs of TSB-165A Alice Microphone?

I just uploaded a file showing some measurements on my tsb-165a soundfield mic, with Schoeps/**Alice** type of circuits for each of the capsules. There is an on-axis measurement for each of the 4...Sent: Fri, August 12, 2011 7:02:16 PM >> Subject: Re: [micbuilders] Final specs of [Paul Doornbusch](#) 14 Aug, 2011

Re: Simple M/S mic for portable stereo recorders

...but I'm wondering how your MS schematic can be modified to use the FETs as source-followers. Thanks for that. And thanks for the **Alice** test results. :) Steve --- In micbuilders@^\$1, Scott Helmke wrote: > > I had forgotten that I already had a schematic for my simple...

[qw1209po](#) 14 Aug, 2011

Re: [micbuilders] Final specs of TSB-165A Alice Microphone?

...it in my "Scott Helmke's stuff" folder in the Files section. The mic tested was my prototype **Alice**, which Eric tested back in 2005 or so. -Scott On 08/12/2011 10:28 PM, Eric Benjamin wrote...08/12/2011 12:16 PM, qw1209po wrote: >> I've never actually seen the final specs of using the [Scott Helmke](#) 13 Aug, 2011

Re: Final specs of TSB-165A Alice Microphone?

...Scott Helmke > To: micbuilders@^\$2 > Sent: Fri, August 12, 2011 7:02:16 PM > Subject: Re: [micbuilders] Final specs of TSB-165A **Alice** Microphone? > > Â > Eric Benjamin did a test of one of my prototype **Alice** mics a few years > ago - I've still got it, just not... [qw1209po](#) 13 Aug, 2011

Re: [micbuilders] Final specs of TSB-165A Alice Microphone?

...From: Scott Helmke To: micbuilders@^\$1 Sent: Fri, August 12, 2011 7:02:16 PM Subject: Re: [micbuilders] Final specs of TSB-165A **Alice** Microphone? Eric Benjamin did a test of one of my prototype **Alice** mics a few years ago - I've still got it, just not sure if he... [Eric Benjamin](#) 13 Aug, 2011

Re: [micbuilders] Final specs of TSB-165A Alice Microphone?

Eric Benjamin did a test of one of my prototype **Alice** mics a few years ago - I've still got it, just not sure if he'd be OK with me sharing it here. -Scott On 08/12/2011 12:16 PM, qw1209po wrote: > I've never actually seen the final specs of using the **Alice** circuit with a TSB-165. The circuit must surely [Scott Helmke](#) 13 Aug, 2011

Final specs of TSB-165A Alice Microphone?

I've never actually seen the final specs of using the **Alice** circuit with a TSB-165. The circuit must surely alter the base specs of the capsule. Did anyone ever document values for: Sensitivity? Frequency Response? Phase Plot? S/N? Output impedance? Thanks. [qw1209po](#) 12 Aug, 2011

Re: Another new member / CK31 capsule question

...website that confirms that the CK31 is a pre-polarized condenser mic. Same as saying it's an electret I guess. > > So perhaps the **Alice** microphone circuit by Scott Helmke (<http://scotthelmke.com/alice-schematic.jpg>) would be a way to go ... > > [Non-text portions... [poorlyconditioned](#) 15 Jul, 2011

Re: [micbuilders] Re: Another new member / CK31 capsule question

Roger re the 2 "**Alice**" designs IIRC, the one with the 1gig R is for Capsules without a FET The other circuit is closer to what you want...to me on reading, probably the same, posts that you mentioned that appeared a few days ago. I saw the link to the **Alice** circuits. The 2n5087's and the [John Lundsten](#) 08 Jul, 2011

Re: Another new member / CK31 capsule question

...capsules came to me on reading, probably the same, posts that you mentioned that appeared a few days ago. I saw the link to the **Alice** circuits. The 2n5087's and the 2n4416's arrived in the post today ! There appears to be two versions - only one has the 1 gig resistor... [RogerJ](#) 08 Jul, 2011

Re: Another new member / CK31 capsule question

...base and at a glance it looks like the FET is in the base. The copy is pretty fuzzy so its hard to be certain. I think that the "**alice**" circuit would be a good place to start for these capsules. It looks like the ck31 should work nicely as a substitute for the TSB165... [archieaa1](#) 08 Jul, 2011

Re: MS microphone: capsule distance + electronics

...the signal cancellation downstream, and in my case, the capsule matching won't be perfect anyway. On the other hand, my figure-8 **Alice** circuit is elegant and symmetrical in my original "version 1" schematic and I do have a quality preamp. Any further thoughts on... [qw1209po](#) 07 Jul, 2011

Re: MS microphone: capsule distance + electronics

...side facing mics? Or does it matter? I'm planing on mounting them in a 1" Alu tube. > > 2. Is there a 2-capsule version of the **Alice** circuit for the figure-8? > > Thanks for any pointers. >
[lrsetty](#) 07 Jul, 2011

Re: [micbuilders] Re: Another new member / CK31 capsule question

"RogerJ" wrote: So perhaps the **Alice** microphone circuit by Scott Helmke (<http://scotthelmke.com/alice-schematic.jpg>) would be a way to go ..."
Probably a lot simpler...
[John Lundsten](#) 06 Jul, 2011

Re: Another new member / CK31 capsule question

...website that confirms that the CK31 is a pre-polarized condenser mic. Same as saying it's an electret I guess. > > So perhaps the **Alice** microphone circuit by Scott Helmke (<http://scotthelmke.com/alice-schematic.jpg>) would be a way to go ... > > [Non-text portions...
[Roger](#) 06 Jul, 2011

Re: [micbuilders] Re: MS microphone: capsule distance + electronics

...to link to them directly...). > > They are two proposed ways of wiring two TSB-165a's in a figure-8 configuration based on the **Alice** circuit. I don't think the first version is a good idea because the two capsule signals will end up being out of phase. > > The...
[Scott Helmke](#) 06 Jul, 2011

RE: [micbuilders] Another new member / CK31 capsule question

...akg website that confirms that the CK31 is a pre-polarized condenser mic. Same as saying it's an electret I guess. So perhaps the **Alice** microphone circuit by Scott Helmke (<http://scotthelmke.com/alice-schematic.jpg>) would be a way to go ... [Non-text portions of...
[RogerJ](#) 06 Jul, 2011

Re: MS microphone: capsule distance + electronics

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[qw1209po](#) 06 Jul, 2011

Re: [micbuilders] Re: New to group

...even on my first time making the actual ribbon. Good luck, -Greg On Tue, Jul 5, 2011 at 7:41 AM, anuhn83 wrote: > ** > > > The **Alice** Microphone! > > Its easy, and very rewarding build. > > <http://scotthelmke.com/alice-mic.html> > > <http://scotthelmke.com/Alice...>

[Greg A.](#) 06 Jul, 2011

Re: New to group

The **Alice** Microphone! Its easy, and very rewarding build.

<http://scotthelmke.com/alice-mic.html> <http://scotthelmke.com/Alice-kit/>

[anuhn83](#) 05 Jul, 2011

Re: Electret mic!!!!!!!!!!!!!!

...masters in the field. There is a wealth of information in the files and photo's areas of the group. You should be able to find the "**Alice**" circuit with a little looking around. It is an excellent circuit to use with electret capsules that do not have a built in FET...

[archieaa1](#) 05 Jul, 2011

Re: [micbuilders] Re: Electret mic!!!!!!!!!!!!!!

...totally stock capsule. -Scott On 07/04/2011 05:01 PM, Scott Helmke wrote: > The TSB-2555A *is* an electret. You can use it with the **Alice** circuit > for a phantom-powered mic. And it's only about \$12 plus shipping from > JLI for that capsule. > > Are you maybe a fan...

[Scott Helmke](#) 05 Jul, 2011

Re: [micbuilders] Re: Electret mic!!!!!!!!!!!!!!

The TSB-2555A *is* an electret. You can use it with the **Alice** circuit for a phantom-powered mic. And it's only about \$12 plus shipping from JLI for that capsule...hockey puck in the middle, it's >> just a TSB-2555A capsule

Scott Helmke 04 Jul, 2011

Re: Electrect mic!!!!!!!!!!!!!!

...of tinker-toys with a brass hockey puck in the middle, it's > just a TSB-2555A capsule and the electronics are the same as the **Alice** > microphone. Fairly easy to build, at least the electronics part. > >
<http://scotthelmke.com/clara-mic.html> > > -Scott > Yeah...

[mag861028003](#) 04 Jul, 2011

Re: [micbuilders] Electrect mic!!!!!!!!!!!!!!

...out of tinker-toys with a brass hockey puck in the middle, it's just a TSB-2555A capsule and the electronics are the same as the **Alice** microphone. Fairly easy to build, at least the electronics part.
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Scott Helmke 04 Jul, 2011

RE: [micbuilders] Re: MS microphone: capsule distance + electronics

...4PEMThfjbbZMoCkBYZlyppRf71DBFou-2NAn-BKTdwQR2hZpbu5q1qbRcMZ1fap25QQFJ-cR1Nwof4CZNezrne-Z5-SWpv4/dayvel%27s%20stuff/emcltp.g if Can this be spliced to the **Alice** design? [Non-text portions of this message have been removed]

[Rev Tony Newnham](#) 01 Jul, 2011

Re: MS microphone: capsule distance + electronics

...won't the common-mode cancellation work against the stereo summing in the circuit you describe and the way I drew the modified **Alice** circuit? That's why I posted dayvel's figure-8 summing:

<http://f1.grp.yahooofs.com/v1/4PEMThfjbbZMoCkBYZlyppRf71DBFou-2NAn-qw1209po> 01 Jul, 2011

Re: MS microphone: capsule distance + electronics

...4PEMThfjbbZMoCkBYZlyppRf71DBFou-2NAn-BKTdwQR2hZpbu5q1qbRcMZ1fap25QQFJ-cR1Nwof4CZNezrne-Z5-SWpv4/dayvel%27s%20stuff/emcltp.gif Can this be spliced to the **Alice** design?

qw1209po 30 Jun, 2011

Re: MS microphone: capsule distance + electronics

...connected to this (instead of the ground) then your output is figure of eight. > > umashankar umshankar: I did a logical mod of the **Alice** schematic and followed Dayvel's capsule wiring for the high-quality figure-8 from his site. Does this schematic make sense? [Non-text portions of this message have been removed]

qw1209po 28 Jun, 2011

RE: [micbuilders] MS microphone: capsule distance + electronics

...the side facing mics? Or does it matter? I'm planing on mounting them in a 1" Alu tube. 2. Is there a 2-capsule version of the **Alice** circuit for the figure-8? Thanks for any pointers. [Non-text portions of this message have been removed]

Rev Tony Newnham 28 Jun, 2011

Re: [micbuilders] Re: MS microphone: capsule distance + electronics

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Nick Zuccaro 28 Jun, 2011

Re: [micbuilders] Re: MS microphone: capsule distance + electronics

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umashankar 28 Jun, 2011

Re: MS microphone: capsule distance + electronics

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[qw1209po](#) 28 Jun, 2011

Re: [micbuilders] MS microphone: capsule distance + electronics

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[Nick Zuccaro](#) 28 Jun, 2011

MS microphone: capsule distance + electronics

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[qw1209po](#) 28 Jun, 2011

Re: Transsound TSB capsules source in Germany?

...hope are good enough for starters. At least I read that in the web. But as you showed me, I also was a little outdated with the **Alice** schematic since there is an improved version of it on the net. It is hard to find stuff like that in the forum because it got so...
[jorued](#) 27 Jun, 2011

Re: [micbuilders] Re: Transsound TSB capsules source in Germany? We Have Plenty

...that I'm totally new to microphone building. I've fooled around with > some 9mm capsules but was kind of impressed with those "**Alice**"- like > microphones. So I guess the 16.5mm would be the right ones to pick. I > would have to rely on your expertise, Johannes...
[Bhakakhan](#) 27 Jun, 2011

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microphones. So I guess the 16.5mm would be the right ones to pick. I would have to rely on your expertise, Johannes, to...

[mstrong1](#) 27 Jun, 2011

Re: [micbuilders] Re: Transsound TSB capsules source in Germany?

...in july(next week) it would be possible for me to set the order. So that we both should receive the capsules in mid-july. 2. The **Alice**-Schematic is cool for beginners. but i recommend to build the more refined circuit of zapnsark. you should get a very very good...

[Bhakakhan](#) 27 Jun, 2011

Re: Transsound TSB capsules source in Germany?

...admit, that I'm totally new to microphone building. I've fooled around with some 9mm capsules but was kind of impressed with those "**Alice**"- like microphones. So I guess the 16.5mm would be the right ones to pick. I would have to rely on your expertise, Johannes, to...

[jorued](#) 26 Jun, 2011

Re: Frankentube PCB

...with a few severely stressful moments of course. I'm relatively new to DIY equipment, this year built 2 seventh circle pre-amps, 2 **alice** mics, and the frankentube was my third project, and I just got my first frankentube working last night. If i can do it... anyone...

[anuhn83](#) 16 Jun, 2011

Re: inverting vs non-inverting amplifier

...that i am too poor to invest in proper measuring technique. All that i can say, is that i achieve at least the same quality as **alice**-mics, and probably the same as Jim's Generic ones and probably better than that, because of more (theoretical) Class A signal swing...

[Johannes Herrmann](#) 15 Jun, 2011

Re: Good performance circuit for MCE 2500 electret microphone

...Richard Lee's LN-Primer (simple and (very) good perf., based on very >

refined ideas of min. 2 centuries) > - Scott Helmke's **Alice** Circuit (good for beginners, not so good for > "audiophiles" compared to Zap's circuit) > - [somorastik](#) 30 May, 2011

Re: [micbuilders] Good performance circuit for MCE 2500 electret microphone

...few: - Richard Lee's LN-Primer (simple and (very) good perf., based on very refined ideas of min. 2 centuries) - Scott Helmke's **Alice** Circuit (good for beginners, not so good for "audiophiles" compared to Zap's circuit) - UserNo23's (Scott Wurcer's) pipe fitting...
[Bhakakhan](#) 28 May, 2011

Re: Audio Electronics Explanation of the Alice Mic.

...explanation! > > I should make sure to point out that I didn't do all that much to the > circuit - the **Alice** circuit is almost identical to a "phantom power a > Radio Shack PZM" circuit that's been around...anuhn83 wrote: > >> Im new to Audio Electronics. > >> > >> 2 months ago I made a pair of [juliankaus](#) 20 May, 2011

Re: [micbuilders] Polarization Voltage of Electrets

...accidently- the case, when biasing the JFET, like in ZAPNSPARK's > circuit and it is also present in other similar circuits, like the **ALICE** > (because of Vgs Offset - the absolute amount of DC is dependent on bias > resistor and JFET, i would say: you always deal with...
[Eric Benjamin](#) 19 May, 2011

Re: [micbuilders] Polarization Voltage of Electrets

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[Jerry Lee Marcel](#) 19 May, 2011

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Re: Polarization Voltage of Electrets

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[Zapnspark](#) 19 May, 2011

Re: [micbuilders] Polarization Voltage of Electrets

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[Bhakakhan](#) 19 May, 2011

Re: [micbuilders] Audio Electronics Explanation of the Alice Mic.

...explanation! I should make sure to point out that I didn't do all that much to the circuit - the **Alice** circuit is almost identical to a "phantom power a Radio Shack PZM" circuit that's been around...one other person built similar mics before me. -Scott Bhakakhan wrote: > ADD: > > Here in the
[Scott Helmke](#) 17 May, 2011

Re: [micbuilders] Audio Electronics Explanation of the Alice Mic.

ADD: Here in the **alice**, the Voltage Divider is a littlebit "hidden", because of the PNP's. The important resistor is here the 6k8. This...On 16.05.2011 23:00, anuhn83 wrote: > > Im new to Audio Electronics. > > 2 months ago I made a pair of matching **Alice** mic's for my home studio. > And i love them.
[Bhakakhan](#) 17 May, 2011

Re: [micbuilders] Audio Electronics Explanation of the Alice Mic.

...Audio Electronics. > > 2 months ago I made a pair of matching **Alice**

mic's for my home studio. > And i love them. they've come in...hoping to find, is a walk through of what's happening > in the **Alice** Microphone Circuit. > > Being extremely Detailed.. would be...are doing their job, how [Bhakakhan](#) 17 May, 2011

Audio Electronics Explanation of the Alice Mic.

Im new to Audio Electronics. 2 months ago I made a pair of matching **Alice** mic's for my home studio. And i love them. they've come in handy. This new avenue of recording, and electronics is like an explosion...trying to teach myself the basics of audio electronics. But what I was hoping to find, [anuhn83](#) 16 May, 2011

Re: [micbuilders] Re: Missing Diodes in Alice circuits

...From: Richard To: micbuilders@^\$1 Sent: Monday, May 2, 2011 6:39 AM Subject: [micbuilders] Re: Missing Diodes in **Alice** circuits > I've got the capacitor in a few mics, but don't have the diodes anywhere. ... > The cap may well have been the difference... [Nick Zuccaro](#) 02 May, 2011

Re: Missing Diodes in Alice circuits

...The cap may well have been the difference between success and failure on a gig or two - funky house splitter snake leading to the **Alice** mics being unusable at one show. ... > I've never had a problem with noise from damaged transistors, aside from one or two possible... [Richard](#) 02 May, 2011

Re: Missing Diodes in Alice circuits

...Kindest regards, zephyrmic --- In micbuilders@^\$1, francis dupuis wrote: > > Hello Micbuilders > > I use BC560 too and one of my **Alice** mic became noisy after a while (without > zeners) . I have to change the BJT . > > Does zeners will had distorsion ? any idea... [zephyrmic](#) 02 May, 2011

Re: [micbuilders] Re: Missing Diodes in Alice circuits

Hello Micbuilders I use BC560 too and one of my **Alice** mic became noisy after a while (without zeners) . I have to change the BJT . Does zeners will had distorsion ? any idea? Francis...From: umashankar To:

micbuilders@^\$1 Sent: Mon, May 2, 2011 5:28:44 AM Subject: Re: [francis dupuis](#) 02 May, 2011

Re: [micbuilders] Re: Missing Diodes in Alice circuits

...From: Scott Helmke To: micbuilders@^\$1 Sent: Mon, May 2, 2011 8:26:36 AM Subject: Re: [micbuilders] Re: Missing Diodes in **Alice** circuits I'm one of the guilty parties... though I don't think I actually have a schematic posted here. But I do have a couple...
[umashankar](#) 02 May, 2011

Re: [micbuilders] Re: Missing Diodes in Alice circuits

...The cap may well have been the difference between success and failure on a gig or two - funky house splitter snake leading to the **Alice** mics being unusable at one show. Haven't seen anything like that since I added the cap to my own show **Alice**/Audrey mics. So that...
[Scott Helmke](#) 02 May, 2011

Re: Missing Diodes in Alice circuits

Thanks for this Jim. The 47u cap (C9 in Schoeps.pdf) does indeed improve performance but I didn't want to re-design everyone else's circuit. There's no end to this and you only get a name for being a circuit Nazi. The reason I'm making an issue of the diodes is that it can result in really bad noise
[Richard](#) 01 May, 2011

Re: Missing Diodes in Alice circuits

There is also another part omission from the **Alice** circuit. The original Schoeps circuit has a 47 uF cap from the common collector junction of the BJTs (PNP output transistors) to...here in some much older posts at the Micbuilders group. Cheers. Jim G. ZAPNSPARK --- In micbuilders@^\$1, [Zapnspark](#) 01 May, 2011

Missing Diodes in Alice circuits

Alice is a popular version of the Schoeps circuit by Scott Helmke; probably because its simple and works well. But there is an important omission. The **Alice** versions do not have the zeners, D3 & D4 in Schoeps.pdf
<http://tech.groups.yahoo.com/group/micbuilders/files/Schematics...review>
[Richard Lee](#) 01 May, 2011

Re: SMD parts for Alice microphone?

...wrote: > > Hi Everyone, > > I will shortly embark on building my first microphone, based on the **Alice** schematic. > > I have three questions. > > 1) I'm thinking of using the SMD variant of the FET...mm from the capsule. You can also use SMD capacitors. The values can be smaller than in the
[Roger](#) 29 Apr, 2011

SMD parts for Alice microphone?

Hi Everyone, I will shortly embark on building my first microphone, based on the **Alice** schematic. I have three questions. 1) I'm thinking of using the SMD variant of the FET (it's cheaper) (<http://nz.element14.com...>
dbranton@xtra.co.nz 29 Apr, 2011

Re: 1Gohm Resistor - sources.

...B. Cheers. Jim G. ZAPNSPARK --- In micbuilders@^\$1, Eric Benjamin wrote: > > >find the Smallest, 1G resistor, suitable for the **Alice** mic design, for the > >cheapest price? > > Tyco RGP series, \$0.82 at Allied Electronics in a quantity of one. > > <http://www.alliedelec...>
[Zapnspark](#) 21 Apr, 2011

Re: [micbuilders] 1Gohm Resistor - sources.

>find the Smallest, 1G resistor, suitable for the **Alice** mic design, for the >cheapest price? Tyco RGP series, \$0.82 at Allied Electronics in a quantity of one. <http://www.alliedelec.com...>53:02 AM Subject: [micbuilders] 1Gohm Resistor - sources. COuld anyone help me find the Smallest, 1G resistor,
[Eric Benjamin](#) 21 Apr, 2011

Re: [micbuilders] 1Gohm Resistor - sources.

...12:53 PM Subject: [micbuilders] 1Gohm Resistor - sources. COuld anyone help me find the Smallest, 1G resistor, suitable for the **Alice** mic design, for the cheapest price? I'm having trouble finding something small with the same spec's scott desgined. Anyone have...
[Nick Zuccaro](#) 21 Apr, 2011

Re: [micbuilders] 1Gohm Resistor - sources.

...cheers, Johannes On 21.04.2011 18:53, anuhn83 wrote: > > COuld anyone help me find the Smallest, 1G resistor, suitable for the > **Alice** mic design, for the cheapest price? > > I'm having trouble finding something small with the same spec's scott > desgined. > > Anyone...
[Bhakakhan](#) 21 Apr, 2011

Re: [micbuilders] 1Gohm Resistor - sources.

...Larry On Thu, Apr 21, 2011 at 12:53 PM, anuhn83 wrote: > > > COuld anyone help me find the Smallest, 1G resistor, suitable for the **Alice** > mic design, for the cheapest price? > > I'm having trouble finding something small with the same spec's scott > desgined...
[Larry Acklin](#) 21 Apr, 2011

1Gohm Resistor - sources.

COuld anyone help me find the Smallest, 1G resistor, suitable for the **Alice** mic design, for the cheapest price? I'm having trouble finding something small with the same spec's scott desgined. Anyone have luck finding a small version? other than the inch long blue Res?
[anuhn83](#) 21 Apr, 2011

Alice Mic Template

Hi- Does any one have the artwork for a "stock" **alice** mic cutout (the windows part). I'm building some and printing a template beats designing one. Thanks Larry Acklin
[kb3cuf](#) 21 Apr, 2011

My Alice Mic Build

I added a few pictures of my **Alice** mic build if you're interested in looking. Under "My **Alice** Build". I will add more pictures soon. Alex
[anuhn83](#) 08 Apr, 2011

Re: [micbuilders] Alice Mic - Impedance!!

...Les ----- Original Message ----- From: anuhn83 To: micbuilders@^\$1
Sent: Tuesday, April 05, 2011 9:01 AM Subject: [micbuilders] **Alice** Mic - Impedance!! Does anyone know the Impedance of Scott Helmke's **Alice** Microphone? [Non-text portions of this message have been...]

LESLIE WATTS 05 Apr, 2011

Alice Mic - Impedance!!

Does anyone know the Impedance of Scott Helmke's **Alice** Microphone?
anuhn83 05 Apr, 2011

Re: Problems with Alice mic

Can you put the EXACT circuit you used somewhere? Number all your components; R1 C2 etc so its easier to discuss. Also more details of "audible noise like a butterfly ". Is the sensitivity & response otherwise OK? BTW, 2SA970 is excellent for this position and what I would use. > Schoeps
Richard Lee 01 Apr, 2011

Re: Problems with Alice mic

thanks johannes, and thanks to everyone is helping me to came up from the problems. i've found some R. Lee file in the theory section, are the right one for the idss? if u have some links can u post me? i've found in Zap directory some schematics with a potentiometer, is the right scheme in
Mike Mike 31 Mar, 2011

Re: [micbuilders] Re: Problems with Alice mic

I've had transistors go mysteriously bad once or twice. Never in a mic that I've had for a while, but somehow during assembly or perhaps defective parts. Mike Mike wrote: > hi Johannes > thanks for your support, i appreciate it ;) > > ok, i've learned a new thing, but how can i fix? > this
Scott Helmke 31 Mar, 2011

Re: Problems with Alice mic

...If you have an IDSS-Device of -lets say- 6mA > > (quite often the case) and you set the operating > > point according to the **ALICE**-Schematic, you only > > have 0.5mA in positive direction before cutoff - > > leading to severe distorsion. > > In the original...
Johannes Herrmann 30 Mar, 2011

Re: [micbuilders] Problems with Alice mic

...Johannes: > If you have an IDSS-Device of -lets say- 6mA > (quite often

the case) and you set the operating > point according to the **ALICE**-Schematic, you only > have 0.5mA in positive direction before cutoff - > leading to severe distortion. In the original Schoeps...
[Goran Finnberg](#) 30 Mar, 2011

Re: Problems with Alice mic

Hey again, thanks for pointing out the similarity of BC560 and BC559. BJT's are not my profession, so i apologize... the bs170 should be similar to the 2sk170, but i don't know exactly. Those FETs have a astonishing low noise figure, BUT: They have high CiSS Values too, and bad Yfs Characteristics.
[Johannes Herrmann](#) 30 Mar, 2011

Re: Problems with Alice mic

hi Johannes thanks for your support, i appreciate it ;) ok, i've learned a new thing, but how can i fix? this evening i will study on this thing... i've had a look to the datasheets, bc559c is the little brother of the bc560c, so i think it wont be a problem. for the fet maybe a bs170 that is relative to the
[Mike Mike](#) 30 Mar, 2011

Re: Problems with Alice mic

...of the FET. Every FET > outthere comes with an individual IDSS-Value. Those values differ really > much from FET to FET. > > The **Alice** Circuit assumes, that you are running some kind of 10mA FET or > so...let me show you the connection: > > With a 12V PowerSupply...
[Johannes Herrmann](#) 30 Mar, 2011

Re: [micbuilders] Problems with Alice mic

...outthere comes with an individual IDSS-Value. Those values differ really much from FET to FET. The **Alice** Circuit assumes, that you are running some kind of 10mA FET or so...let me show you the connection...Device of -lets say- 6mA (quite often the case) and you set the operating point
[Bhakakhan](#) 30 Mar, 2011

Problems with Alice mic

Hi all i've got a couple of problems with two **alice** mic style microphones, i'm going to explain: My mic is based on the **alice** schematics, got Tsb 165a cap, j201 fet(soldered on the...

[Mike Mike](#) 30 Mar, 2011

Re: Alice mic pcb

...convert the file to any other format. --- In micbuilders@^\$1, "John Gu" wrote: > > Hi Dan > Just I have checked the layout of the **Alice** MIC PCB. But it is in ExpressPCB software. > Do you have the files that can be open by Protell99se ??? Or the Gerber file of the...

[g_gam_ut](#) 15 Mar, 2011

Re: Alice mic pcb

Hi Dan Just I have checked the layout of the **Alice** MIC PCB. But it is in ExpressPCB software. Do you have the files that can be open by Protell99se ??? Or the Gerber file of the PCB? John Gu NINGBO LONGXING ELECTRONIC CO.,LTD www.lxmico.com --- In micbuilders@^\$1, [John Gu](#) 15 Mar, 2011

Re: Alice mic pcb

PCBs officially sold out. Thanks for your interest. Dan
[g_gam_ut](#) 14 Mar, 2011

Re: [micbuilders] Alice mic pcb

...From: Gerard Lardner To: micbuilders@^\$1 Sent: Fri, March 11, 2011 4:56:25 PM Subject: Re: [micbuilders] **Alice** mic pcb Hi Dan, I'll take four as well, for a soundfield microphone project I intend to make. But I'm in Ireland, so what would...

[Dan Ryan](#) 14 Mar, 2011

Re: [micbuilders] Re: Alice Mic Layout

...understand what you're saying. Scott, > are you talking about a circuit with the trimpot/divider network, or > leaving it out like your **Alice** circuit? What you describe sounds like > the **Alice** circuit, and I have done some just as you describe, with the > fet right behind...

[Bhakakhan](#) 12 Mar, 2011

Re: Alice Mic Layout

...understand what you're saying. Scott, are you talking about a circuit with

the trimpot/divider network, or leaving it out like your **Alice** circuit? What you describe sounds like the **Alice** circuit, and I have done some just as you describe. with the fet right behind...
[pgrahampdx](#) 12 Mar, 2011

Re: Alice mic pcb

...circuits per board for \$60. Dan --- In micbuilders@^\$1, "g_gam_ut" wrote:
> > I have had some pcbs fabricated of Scott Helmke's **Alice** circuit and have some extras. With Scott's permission, I would like to offer them for sale to forum members. I'm not looking to...
[g_gam_ut](#) 12 Mar, 2011

Re: [micbuilders] Alice mic pcb

done! --- On Fri, 3/11/11, Dan Ryan wrote: From: Dan Ryan Subject: Re: [micbuilders] **Alice** mic pcb To: micbuilders@^\$1 Date: Friday, March 11, 2011, 12:55 PM Hi Bob, How is \$20 for...2011, at 10:56 AM, "g_gam_ut" wrote: > I have had some pcbs fabricated of Scott Helmke's **Alice** circuit
[Bob K](#) 12 Mar, 2011

Re: [micbuilders] Alice mic pcb

...From: Gerard Lardner To: micbuilders@^\$1 Sent: Fri, March 11, 2011 4:56:25 PM Subject: Re: [micbuilders] **Alice** mic pcb Hi Dan, I'll take four as well, for a soundfield microphone project I intend to make. But I'm in Ireland, so what would...
[Dan Ryan](#) 11 Mar, 2011

Re: [micbuilders] Alice mic pcb

...would you charge including postage? Gerard On 11/03/2011 18:56, [g_gam_ut](#) wrote: > I have had some pcbs fabricated of Scott Helmke's **Alice** circuit and have some extras. With Scott's permission, I would like to offer them for sale to forum members. I'm not looking to...
[Gerard Lardner](#) 11 Mar, 2011

Re: [micbuilders] Alice mic pcb

...From: Bob Knarley To: "micbuilders@^\$1" Sent: Fri, March 11, 2011 2:37:05 PM Subject: Re: [micbuilders] **Alice** mic pcb I'll take four if they are still for sale From the mobile office of Bob Knarley. On Mar 11, 2011, at

10:56 AM, "g_gam_ut..."
[Dan Ryan](#) 11 Mar, 2011

Re: [micbuilders] Alice mic pcb

...mobile office of Bob Knarley. On Mar 11, 2011, at 10:56 AM, "g_gam_ut" wrote: > I have had some pcbs fabricated of Scott Helmke's **Alice** circuit and have some extras. With Scott's permission, I would like to offer them for sale to forum members. I'm not looking to...

[Bob Knarley](#) 11 Mar, 2011

Alice mic pcb

I have had some pcbs fabricated of Scott Helmke's **Alice** circuit and have some extras. With Scott's permission, I would like to offer them for sale to forum members. I'm not looking to...

[g_gam_ut](#) 11 Mar, 2011

Re: [micbuilders] Re: Alice Mic Layout

IIRC, it's not a typical connector; there's a probe in the fixed part of the body that touches a pad at the back of the capsule. Both must be avoided contamination and can be easily cleaned. Ground connection is ensured by the thread. Similar to the original AKG451. It's years I haven't looked at the

[Jerry Lee Marcel](#) 11 Mar, 2011

Re: Alice Mic Layout

Thank you Jerry. That's just the explanation I was looking for. One thing I wonder about - I have never seen the original Schoeps mics with the interchangeable capsules, on which this design is based, but in the original schematic, the capsule is the only thing in the removable section, with

[Philip Graham](#) 11 Mar, 2011

Re: Alice Mic Layout

...understand what you're saying. Scott, are you talking about a circuit with the trimpot/divider network, or leaving it out like your **Alice** circuit? What you describe sounds like the **Alice** circuit, and I have done some just as you describe, with the fet right behind...

[Johannes Herrmann](#) 11 Mar, 2011

Re: [micbuilders] Re: Alice Mic Layout

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[Jerry Lee Marcel](#) 11 Mar, 2011

Re: Alice Mic Layout

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[pgrahampdx](#) 11 Mar, 2011

Re: [micbuilders] Re: Alice Mic Layout

it is indeed... sorry my last reply was a bit too late... ;/ Johannes On 11.03.2011 02:22, zephyrmic wrote: > > That is a great method. > > Kindest regards, > > zephyrmic > > --- In micbuilders@^\$1 > , Scott Helmke wrote: > > > > I don't even use the perfboard - the FET and 1Gohm resistor are >

[Bhakakhan](#) 11 Mar, 2011

Re: [micbuilders] Re: Alice Mic Layout

Hello Philip, i don't exactly know, but i would treat the trimpot as a part of the hi-Z network. But you are right, theoretically it should be possible to only solder drain, source and ground to the wires and let the resistor network (Source resistor + DC Adj. Trimpot) follow on the PCB.

[Bhakakhan](#) 11 Mar, 2011

Re: Alice Mic Layout

That is a great method. Kindest regards, zephyrmic --- In micbuilders@^\$1, Scott Helmke wrote: > > I don't even use the perfboard - the FET and 1Gohm resistor are soldered > directly to the capsule, and then I have a short piece of thin shielded > 2-conductor wire from the source and drain of

[zephyrmic](#) 11 Mar, 2011

Re: [micbuilders] Re: Alice Mic Layout

I don't even use the perfboard - the FET and 1Gohm resistor are soldered directly to the capsule, and then I have a short piece of thin shielded 2-conductor wire from the source and drain of the FET to the main circuit board. The shield from that wire is the ground to the capsule. As zephyrmic [Scott Helmke](#) 11 Mar, 2011

Re: Alice Mic Layout

The high impedance part of the circuit - very high impedance - is the from the capsule backplate to the gate of the FET. In my book, the leads from the capsule backplate to the gate of the FET need to be as short as possible. Hence my solution is to use a small piece of perfboard behind the [zephyrmic](#) 11 Mar, 2011

Re: Alice Mic Layout

The high impedance part of the circuit - very high impedance - is the from the capsule backplate to the gate of the FET. In my book, the leads from the capsule backplate to the gate of the FET need to be as short as possible. Hence my solution is to use a small piece of perfboard behind the [zephyrmic](#) 11 Mar, 2011

Re: Alice Mic Layout

Hi, could someone explain exactly which parts of the circuit are the high-capacitance net? Is it just the connection from capsule to gate and 1G resistor? I am laying out a version of zapnsark's electret circuit, using the 1meg trimpot, and I was planning on putting the trimpot on the board in the [pgrahampdx](#) 10 Mar, 2011

Re: [micbuilders] Re: Alice Mic Layout

Le 09/03/2011 14:26, Juergen G. a écrit : > > > > Using shielded wire will add capacitance to this net. This will result > in an reduced Output Voltage of the Capsule. The total capacitance > will be the summ of $C_{total} = C_{capsule} + C_{wire} + C_{board} + C_{gs} [Fet] + > C_{gd} * (1 + A) [Miller\ effect] +$
[Jerry Lee Marcel](#) 09 Mar, 2011

Re: Alice Mic Layout

Using shielded wire will add capacitance to this net. This will result in an reduced Output Voltage of the Capsule. The total capacitance will be the

summ of Ctotal = Ccapsule + Cwire + Cboard + Cgs [Fet] + Cgd * (1 + A) [Miller effect] + The Voltage at the Capsule will be reduced by Ccapsule
[Juergen G.](#) 09 Mar, 2011

Re: [micbuilders] Re: Alice Mic Layout

John, Could you comment on the effect of shielded cable capacitance at these very high impedances? Thanks, -Scott John Gu wrote: > I think it can be connected with leadwire. > if the leadwire too long, we suggest that you use the shielded wire. Use the shielded wire have anti-noise fuction. > You
[Scott Helmke](#) 09 Mar, 2011

Re: Alice Mic Layout

I think it can be connected with leadwire. if the leadwire too long, we suggest that you use the shielded wire. Use the shielded wire have anti-noise fuction. You also can use our studio capsules: Uni-ECM-LX16573W Uni-ECM-LX16162W Uni-ECM-LX26070W Please look through our website
[John Gu](#) 09 Mar, 2011

Re: Alice Mic Layout

I have used the Transsound 16.5mm capsules in a circuit similar to the **Alice** one, with good success. Actually the one zapnspark put in the Files section. I have figured out that the shorter the distance from...
[zephyrmic](#) 09 Mar, 2011

Re: Alice Mic Layout

This net is very sensitive. Even small amounts of dirt (Resin, Fingerprints, Salts) on the PCB or Perfboard combined with moisture result in currents in the same range as the curenets from the Capsule. This will result in bad noise. You can do it all on PCB or even Perfboard, but it is best to do some
[Juergen G.](#) 08 Mar, 2011

Alice Mic Layout

Question about the Layout of this circuit. I've seen pictures, of a few of these builds, and all of the mics i see, have the 1gohm Resister, and the JFET. Positioned close to the Electret. and Not on the perf board next to the rest of the parts. Why is this? Do the Res and Jfet need to be in close
[anuhn83](#) 08 Mar, 2011

Re: [micbuilders] Re: TSB165A Capsule Preamp - Help Needed with Circuitry

...be like that. Maybe it has to do with the construction. I will provide some sketches soon. I have mounted the capsule like the **ALICE** Type, but I used damping foam in front AND behind the Capsule. I sawed some holes for the rear signals, no windows, like the **alice**...

[Bhakakhan](#) 16 Feb, 2011

Re: TSB165A Capsule Preamp - Help Needed with Circuitry

...the pins of the OPAs, transistors and FET? > > I'm not sure why Rod Elliot published this. No advantage over a properly designed **ALICE** / Schoeps type and much more complex & error prone. That particular SOT resistor rings loud warning bells. > > And use 100% surgical...

[Johannes Herrmann](#) 15 Feb, 2011

TSB165A Capsule Preamp - Help Needed with Circuitry

...all the pins of the OPAs, transistors and FET? I'm not sure why Rod Elliot published this. No advantage over a properly designed **ALICE** / Schoeps type and much more complex & error prone. That particular SOT resistor rings loud warning bells. And use 100% surgical...

[Richard Lee](#) 15 Feb, 2011

TSB165A Capsule Preamp - Help Needed with Circuitry

...Please have a look at the circuit and tell me, where i went the wrong way, i really need your help. P.S.: Yes, maybe the simpler **ALICE** Circuit would be better, but i really want to know, what's wrong with my circuit, so switching to a completely different may solve...

[bhakakhan](#) 15 Feb, 2011

Re: [micbuilders] Pre amp for <37 ohm ribbon mics

...mic with similar impedance. The only suitable answer I have for you are all older pre-amps which come from that era: RCA BA-31 **Alice** preamps (1960s **Alice** consoles) Telefunken V72 Or look for broadcast preamps. We have some at the studio from the BBC that were...

[Nick Zuccaro](#) 28 Sep, 2010

Pre amp for <37 ohm ribbon mics

...mic with similar impedance. The only suitable answer I have for you are all older pre-amps which come from that era: RCA BA-31 **Alice** preamps (1960s **Alice** consoles) Telefunken V72 Or look for broadcast preamps. We have some at the studio from the BBC that were...

[Lorin Parker](#) 28 Sep, 2010

Re: Mic Build or Mod...

...to a full on build (walk before you run). If you're determined to do a build try the rickshaw records website or Scott Helmke's "**Alice**" is always nice. Some great mods: Zaps MXL 990, adding a rode D-Power Preamp inside of a ribbon mic in lieu of a transformer. For...

[Johnny Zhivago](#) 25 Aug, 2010

Re: [micbuilders] Re: cost effective shotgun or directional mic

...the model number was (probably got that at home somewhere), but emailing JLI would probably help. You'd use a circuit like the "**Alice**" mic since these capsules didn't have a built-in FET. I did spend a little time seeing if they'd be good for piano in a live sound...

scott@scotthelmke.com 29 Jul, 2010

Re: [micbuilders] test circuit to check transistors for noise?

...knowledgeable about solid-state circuits. I've built a few mics for music recording using transsound TSB-65 capsules and variations on the **Alice** circuit, which I'm generally pleased with. However, some end up quite noisy. I've noted several references to selecting low-noise...

[Sergei Steshenko](#) 16 Jul, 2010

test circuit to check transistors for noise?

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[pgrahampdx](#) 16 Jul, 2010

Re: FETs for mics

...2N4416A (FET) isn't it ? > > Told that as you mentioned the Schoeps circuit , IIRC is the one in the parts list of Scott Helmke **Alice** mic. > > Appreciate any pointing if I'm wrong about that FET concept. > > Best, > > Nestor > > > > Re: FETs for mics > Posted by...

[zephyrmic](#) 07 Jun, 2010

Re: FETs for mics

...the 2N4416A (FET) isn't it ? Told that as you mentioned the Schoeps circuit , IIRC is the one in the parts list of Scott Helmke **Alice** mic. Appreciate any pointing if I'm wrong about that FET concept. Best, Nestor Re: FETs for mics Posted by: "userno232000" scott...

[psi2006@yahoo.com.ar](#) 05 Jun, 2010

Re: Measure and modify frequency response.

...should work with the rest blocked leading to the cable. -Mike. --- In micbuilders@^\$1, "fonorono" wrote: > > I built a pair of "**Alice**" mics. Basically a Schoepps circuit with a TSB-165 capsule and a 2n4338 in a 1" steel pipe. The mics work well, with some reservations...

[Mike Rooke](#) 08 Apr, 2010

[micbuilders] Re: Measure and modify frequency response.

At 6:39 AM +0000 4/8/10, Richard wrote: > > >--- "fonorono" wrote: >> I built a pair of "**Alice**" mics. Basically a Schoepps circuit with >> a TSB-165 capsule and a 2n4338 in a 1" steel pipe. The mics work >> well, with some...

[Rob Danielson](#) 08 Apr, 2010

Re: Measure and modify frequency response.

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[Richard](#) 08 Apr, 2010

Re: [micbuilders] Measure and modify frequency response.

...micbuilders] Measure and modify frequency response. To: micbuilders@^\$1 Date: Wednesday, April 7, 2010, 9:53 PM I built a pair of "**Alice**" mics. Basically a Schoepps circuit with a TSB-165 capsule and a 2n4338 in a 1" steel pipe. The mics work well, with some reservations...
[Mike Feldman](#) 08 Apr, 2010

Measure and modify frequency response.

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[fonorono](#) 08 Apr, 2010

RE: [micbuilders] Paralleling mic?

...working. 2.The reason I am using a 6.8k in the output is because the Mic speck sheet shows one. 3.The 3.3uf bothers me because in the **Alice** mic they use a .47uf polyester cap, and I am using electrolytic ESR cap. I had a 1uf in the amplifier input until I realized a...
[Robert Munger](#) 23 Feb, 2010

Re: A microphone for interviewing

...as little as \$30) and they are almost impossible to kill. However this is the micbuilders group so I guess I would look at the **alice** circuit or some of the circuits for panasonic electrets and sub in the best omni cap I could lay hands on. Check the files section...
[Archie A Anderson](#) 23 Feb, 2010

Paralleling mic?

...working. 2.The reason I am using a 6.8k in the output is because the Mic speck sheet shows one. 3.The 3.3uf bothers me because in the **Alice** mic they use a .47uf polyester cap, and I am using electrolytic ESR cap. I had a 1uf in the amplifier input until I realized a...
[Doodle Bug](#) 23 Feb, 2010

Re: TSB-140 AO question

...front to back rejection. Rich --- In micbuilders@^\$1, "Doodle Bug" wrote:
> > A while back I said I was using a TSB-165/2n4416, **Alice** mic for picking up faint field nature sounds and was told I should be using an Omni

directional mike and not a TSB-165 unidirectional...

[richpeet](#) 01 Feb, 2010

Re: [micbuilders] Re: TSB-140 AO question

...140A instead, YES? NO? > > I have a idea, would someone tell me what mike I should have orders and I assume the 2n4416 FET and **Alice** circuit would be the best choice to use? > > Omin directional any brand > > > > ----- > > Yahoo...

[Scott Helmke](#) 01 Feb, 2010

Re: TSB-140 AO question

...TSB-140A instead, YES? NO? I have a idea, would someone tell me what mike I should have orders and I assume the 2n4416 FET and **Alice** circuit would be the best choice to use? Omin directional any brand

[Doodle Bug](#) 31 Jan, 2010

Re: [micbuilders] TSB-140 AO question

...140 is really too noisy for quiet nature recording. -Scott Doodle Bug wrote:
> A while back I said I was using a TSB-165/2n4416, **Alice** mic for picking up faint field nature sounds and was told I should be using an Omni directional mike and not a TSB-165 unidirectional...

[Scott Helmke](#) 31 Jan, 2010

TSB-140 AO question

A while back I said I was using a TSB-165/2n4416, **Alice** mic for picking up faint field nature sounds and was told I should be using an Omni directional mike...mikes and listening to birds in the yard with lots of back ground noise (cars airplanes) the TSB-165 **Alice** mike and 4-TSB-140AO sound the

[Doodle Bug](#) 31 Jan, 2010

Re: [micbuilders] Re: Electret Mic Element Question

However, if you do use the **Alice** design, putting higher value capacitors in the audio path will extend the low frequency response a bit. The capsules really aren...

[Scott Helmke](#) 26 Jan, 2010

Re: Don't Have a Nice Trip

...52:28 +0000 > Subject: [micbuilders] Don't Have a Nice Trip > > > > >
> > > > > > > > > > > > > > > > > > I made two **Alice** mics with
TSB-2555's - tried them, and they sounded good - the graphic wav looked
like gain was the same between them...

[zog2zog2003](#) 25 Jan, 2010

RE: [micbuilders] Don't Have a Nice Trip

...micbuilders@^\$1 From: sandersp1@^\$2 Date: Sat, 23 Jan 2010 19:52:28
+0000 Subject: [micbuilders] Don't Have a Nice Trip I made two **Alice** mics
with TSB-2555's - tried them, and they sounded good - the graphic wav
looked like gain was the same between them. Then of...

[Robert Munger](#) 25 Jan, 2010

Re: [micbuilders] Re: Wooden Plugs and Circle Cutter

...but gums up and smokes. > > Anyway, I've got my plugs, and can apply
the Helmke capsule-mounting method > today. > > I made two **Alice** mics
in chromed sink slip-joints, doing another today. > One has tsb-160a,
others have tsb-2555a. > > I recorded upright bass with...

[Joseph Shaul](#) 20 Jan, 2010

Re: Wooden Plugs and Circle Cutter

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can apply the Helmke capsule-mounting method today. I made two **Alice**
mics in chromed sink slip-joints, doing another today. One has tsb-160a,
others have tsb-2555a. I recorded upright bass with them...

[zog2zog2003](#) 20 Jan, 2010

Re: [micbuilders] Good Multipattern circuit

...Re: [micbuilders] Good Multipattern circuit > A: micbuilders@^\$1 >
Fecha: sábadó, 12 diciembre, 2009, 7:39 pm > > > > > > The **Alice** circuit
will only work with electret capsules... Most > multipattern mics are not
electret. :(> > -Scott > > Oscar Pacheco wrote...

[Scott Helmke](#) 12 Dec, 2009

Re: [micbuilders] Good Multipattern circuit

...Scott Helmke Asunto: Re: [micbuilders] Good Multipattern circuit A: micbuilders@^\$1 Fecha: sábado, 12 diciembre, 2009, 7:39 pm The **Alice** circuit will only work with electret capsules... Most multipattern mics are not electret. :(-Scott Oscar Pacheco wrote: > ok Joseph...
[Oscar Pacheco](#) 12 Dec, 2009

Re: [micbuilders] Good Multipattern circuit

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[Scott Helmke](#) 12 Dec, 2009

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[Oscar Pacheco](#) 12 Dec, 2009

Re: [micbuilders] Good Multipattern circuit

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<http://www.scotthelmke.com/alice-schematic.jpg> I might have a Mouser BOM if you need one - if you buy enough sets of parts at once, it's quite cheap to build. On...
[Joseph Shaul](#) 12 Dec, 2009

Re: Electret alternatives

...cardioid capsules that are very good for > music recording - the TSB-165A is probably the most useful. > <http://www.scotthelmke.com/alice-mic.html> is my mic design using the > TSB-165A. > <http://www.transsound.net/> (ignore the dynamic page - they don't sell >
[Luke Paireepinart](#) 09 Dec, 2009

Re: [micbuilders] Re: Electret alternatives

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my mic design using the TSB-165A. <http://www.transsound.net/> (ignore the dynamic page - they don't sell those capsules...

[Scott Helmke](#) 09 Dec, 2009

Re: Rohs/pzm

...micbuilders@^\$1, Scott Helmke wrote: > > Which parts? > > -Scott > > threetorches@^\$2.. wrote: > > so i got ready to build some **alice** style cardioids avalos's of stefan spec's. > > granted it has been quite a while from when he initially posted. > > i went and...

[threetorches@yahoo.com](#) 06 Dec, 2009

Re: [micbuilders] Rohs/pzm

Which parts? -Scott threetorches@^\$1 wrote: > so i got ready to build some **alice** style cardioids avalos's of stefan spec's. > granted it has been quite a while from when he...alternatives ?(or am i stuck with what is) > on the front of pzms, can i get away with the specs of the **alice** on a > pzm frame?

[Scott Helmke](#) 06 Dec, 2009

Rohs/pzm

so i got ready to build some **alice** style cardioids avalos's of stefan spec's. granted it has been quite a while from when he initially posted. i went and copied and pasted at the...question is ,are their any cost effective alternatives ?(or am i stuck with what is) on the front of pzms, can i get

[threetorches@yahoo.com](#) 06 Dec, 2009

Re: Best faint field nature sounds mic?

...42db gain Richard Lee circuit) driving a ne5532 in to earphones. > > The two microphones I am using are: > > TSB-165a / 2n4416a (**Alice** Mic/ Scott Helmke) (TSB-165a, sensitivity -45db (0db=1V/Pa), s/n ratio > 66db) and > 8- ICC MEO-63pn-02-663, Omnidirectional, Sensitivity...

[Mike Rooke](#) 06 Dec, 2009

Re: Best faint field nature sounds mic?

...42db gain Richard Lee circuit) driving a ne5532 in to earphones. > > The two microphones I am using are: > > TSB-165a / 2n4416a (**Alice** Mic/ Scott Helmke) (TSB-165a, sensitivity -45db (0db=1V/Pa), s/n ratio > 66db) and > 8- ICC MEO-63pn-02- 663, Omnidirectional...

[richpeet](#) 06 Dec, 2009

Re: [micbuilders] Best faint field nature sounds mic?

...42db gain Richard Lee circuit) >driving a ne5532 in to earphones. > >The two microphones I am using are: > >TSB-165a / 2n4416a (**Alice** Mic/ Scott Helmke) (TSB-165a, sensitivity >-45db (0db=1V/Pa), s/n ratio > 66db) and >8- ICC MEO-63pn-02-663, Omnidirectional, Sensitivity...

[Rob Danielson](#) 05 Dec, 2009

RE: [micbuilders] Re: Best faint field nature sounds mic?

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[Robert Munger](#) 05 Dec, 2009

Re: Best faint field nature sounds mic?

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[Richard](#) 05 Dec, 2009

Re: [micbuilders] Best faint field nature sounds mic?

...max410, (42db gain Richard Lee circuit) driving a ne5532 in to earphones. The two microphones I am using are: TSB-165a / 2n4416a (**Alice** Mic/ Scott Helmke) (TSB-165a, sensitivity -45db (0db=1V/Pa), s/n ratio > 66db) and 8- ICC MEO-63pn-02- 663, Omnidirectional, Sensitivity...

[Eric Benjamin](#) 05 Dec, 2009

Best faint field nature sounds mic?

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[Alaska One](#) 04 Dec, 2009

Re: [micbuilders] 1st time alice mic building problems...

...Scott jinpro1 wrote: > Sorry about the newbie post here, but my issue at hand is that I have had no success in building my first **alice** mic. I am not an electronics engineer, but consider myself to be intelligent and diligent to complete what i started, so...

[Scott Helmke](#) 15 Nov, 2009

1st time alice mic building problems...

Sorry about the newbie post here, but my issue at hand is that I have had no success in building my first **alice** mic. I am not an electronics engineer, but consider myself to be intelligent and diligent to complete what i started, so..... my...

[jinpro1](#) 14 Nov, 2009

Re: Projects for TSB capsules

...Boyd --- In micbuilders@^\$1, Scott Helmke wrote: > > Here's my best application for the TSB-165: > <http://www.scotthelmke.com/alice-mic.html>
> > The TSB-140 are pretty nice as well, but the 165 is great. > > -Scott > > boydpost1 wrote: > > Hey Folks, > > Years...

[boydpost1](#) 04 Oct, 2009

Re: [micbuilders] Projects for TSB capsules

Here's my best application for the TSB-165:
<http://www.scotthelmke.com/alice-mic.html> The TSB-140 are pretty nice as well, but the 165 is great. -Scott
boydpost1 wrote: > Hey Folks, > Years ago (over 5 years...

[Scott Helmke](#) 04 Oct, 2009

Re: Calrec stick mikes

...above but LF is better than the big name Germans. Less consistent but slightly cheaper than MK4 ... 8>D Have a look at Scott's **Alice** and Zapnspark's stuff for circuits.

[Richard Lee](#) 17 Sep, 2009

Re: [micbuilders] broadcast mic building

...you mean by "broadcast"? Does it have to be a certain type of

microphone? My own microphone is here:
<http://www.scotthelmke.com/alice-mic.html> It sounds good on voice and music. -Scott onelonlygoth wrote: > what would i need to be able to go
Scott Helmke 22 Aug, 2009

New piano mic system - linear array

...secret grand piano micing system. <http://www.scotthelmke.com/piano-mic.html> Oh yeah - I used TSB-140A capsules and a fairly typical **Alice**-style phantom power circuit. Guess maybe I should include that at some point in the future. -Scott -- ---- Scott Helmke ---- scott...
Scott Helmke 16 Aug, 2009

Re: [micbuilders] Re: alice mic hot pulg able?

To date I haven't had any problems plugging in/out my **Alice** type mics, but the change recommended below is a good idea. -Scott rokavadet wrote: > -
-- In micbuilders@^\$1, "jerry" wrote...
Scott Helmke 01 Aug, 2009

Re: alice mic hot pulg able?

...1, "jerry" wrote: > > hi roger, > thanks, maybe i missed it but what schematic? > there is already a 12 volt zener diode in the **alice** schematic, but i am not clear if it protects anything or not. i am afraid i have some but incomplete(hit or miss) knowledge in...
krokavadet 01 Aug, 2009

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jerry 31 Jul, 2009

Re: alice mic hot pulg able?

--- In micbuilders@^\$1, "jerry" wrote: > > hi you all > constructed as in the schematic in the files section can this mic be hot plugged and unplugged without breaking it? and if not, what would i have to add to be able to safely do that? (and where exactly would i have to add it?) > thanks > jerry

[krokavadet](#) 31 Jul, 2009

alice mic hot plug able?

hi you all constructed as in the schematic in the files section can this mic be hot plugged and unplugged without breaking it? and if not, what would i have to add to be able to safely do that? (and where exactly would i have to add it?) thanks jerry

[jerry](#) 31 Jul, 2009

Re: [micbuilders] shotgun

...experience in building > > hyper-cardioid / shotgun mic's? > > > I was planning to start off with mr. Helmke's design of the **Alice** > > mic, and extend the front end with an inch or 5 of tubing, with > > those cuts on the side (Sennheiser 416 style) > > > I...

[Hans Bruch jr.](#) 22 Jul, 2009

RE: [micbuilders] shotgun

...anyone had some experience in building hyper-cardioid / shotgun mic's? I was planning to start off with mr. Helmke's design of the **Alice** mic, and extend the front end with an inch or 5 of tubing, with those cuts on the side (Sennheiser 416 style) I'm actually looking...

[Robert Munger](#) 22 Jul, 2009

shotgun

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[Hans Bruch jr.](#) 21 Jul, 2009

Very Simple First Mic Project

Hello Everyone, Just found this group, great information, already planning a second microphone based around the "**alice**" design. I made a phantom powered mic using one resistor and a cheap electret capsule. Since It was so simple, I figured there...

[jordancolburn@ymail.com](#) 20 Jul, 2009

Re: [micbuilders] 1st mic problem

...give up. HBJR-belgium On 18 Jul 2009, at 15:37, dede_commoncold wrote: > Hi I'm emanuele from italy,i try to build my fisrt mic,an **alice** mic > with transound capsule. > The mic doesn't work,I heard only a lot of noise and then my voice > on the background very softly...

[Hans Bruch jr.](#) 18 Jul, 2009

1st mic problem

Hi I'm emanuele from italy,i try to build my fisrt mic,an **alice** mic with transound capsule. The mic doesn't work,I heard only a lot of noise and then my voice on the background very softly.. Watching the sound wave with cubase I see only half sound wave and distortion. I use a 2n4416 fet [dede_commoncold](#) 18 Jul, 2009

[micbuilders] Re: 220pF attenuator in Alice mic

>--- In micbuilders@^\$1, "Richard Lee" wrote: >> >> > >
http://picasaweb.google.com/wouter.gordts/DIYMicS?feat=directlink >> >>
> > How about some labels to tell us what we are looking at? >> >> >
Indeed, didn't think about that: the pic's are all from the drum close micing.

[Paul Doornbusch](#) 16 Jul, 2009

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[seeq86](#) 16 Jul, 2009

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> How about some labels to tell us what we are looking at? > Indeed, didn't
think about that: the pic's are all from the drum close micing. The first two
are snares and the other three are the small tom. Which ones are with and

[Richard Lee](#) 16 Jul, 2009

Re: 220pF attenuator in Alice mic

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220pF attenuator in Alice mic

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[Richard Lee](#) 15 Jul, 2009

220pF attenuator in Alice mic

Hello, A friend and I are building **Alice** mic's with attenuator pad's placed in parallel with the TSB 165A capsule. After testing we chose a 220pF which gave us a padding...
[seeq86](#) 14 Jul, 2009

mic preamp - unbalancing without a transformer

...unbalanced line out to connect directly to my soundcard's ubalanced line in. If there's simple solution that will work only with "**Alice**" type circuit, it will be fine too. Thanx, Mihael
[mihaelbele](#) 24 May, 2009

RE: [micbuilders] non-symetrical waveform - why ?

...Date: Tue, 12 May 2009 20:04:28 +0000 Subject: [micbuilders] non-symetrical waveform - why ? I did some SPL tests using modified "**Alice**" schematic
(<http://groups.yahoo.com/group/micbuilders/files/mihaelbele/PhantomAdapte>)
[Robert Munger](#) 13 May, 2009

Re: non-symetrical waveform - why ?

...trombone and you will see it huge. have fun. Rich --- In micbuilders@^\$1, "mihaelbele" wrote: > > I did some SPL tests using modified "**Alice**" schematic
(<http://groups.yahoo.com/group/micbuilders/files/mihaelbele/PhantomAdapte>)
[Rich Peet](#) 12 May, 2009

non-symetrical waveform - why ?

I did some SPL tests using modified "**Alice**" schematic (<http://groups.yahoo.com/group/micbuilders/files/mihaelbele/PhantomAdapteMB.jpg>) with Panasonic wm61 capsule, and...distortion, nor it sounds unusual. I've noticed that when I was recording close miked bassdrum.
[mihaelbele](#) 12 May, 2009

New file uploaded to micbuilders

...area of the micbuilders group. File : /mihaelbele/PhantomAdapter-MB.jpg
Uploaded by : mihaelbele Description : some changes to **alice** schematic which worked for me You can access this file at the URL:
<http://groups.yahoo.com/group/micbuilders/files/mihaelbele/PhantomAdapte>
micbuilders@yahoogroups.com 12 May, 2009

LDC Supply ?

...oriented) Still I'd say that a condenser mic (seen as 'condensor' many times) featuring electret capsules with an external FET (i.e. **Alice** mic) are undistinguishable for the public as built with a 'better electret capsule'. Is any known rank to discern quality i.e...
psi2006@yahoo.com.ar 06 May, 2009

Re: electret mikes - phantom power (capacitors and stuff)

...didn't > > get that loud hum I expected... until I plugged second mic to make > > stereo recording for A/B sound testing. Then "**alice**" started humming > > very loud (~-40db), and "mp3forkids" too (~-65db) - much lower then > > "**alice**", but still very noticeable...
[mihaelbele](#) 27 Mar, 2009

Re: Has anyone actually tried Thorsten's all JFET "Alice" circuit?

--- In micbuilders@^\$1, "krokavadet" wrote: > > --- In micbuilders@^\$2, Paul Doornbusch wrote: > > > > Here's the full URL -
http://f1.grp.yahoofs.com/v1/4BnLSXyUbQQBuq9qR34yv2JdOvnub_-T_7nhg3sx86SnGt-
[usermo232000](#) 26 Mar, 2009

Re: Has anyone actually tried Thorsten's all JFET "Alice" circuit?

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[krokavadet](#) 26 Mar, 2009

RE: [micbuilders] Re: Has anyone actually tried Thorsten's all JFET "Alice" circuit?

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[Paul Doornbusch](#) 26 Mar, 2009

RE: [micbuilders] Re: Has anyone actually tried Thorsten's all JFET "Alice" circuit?

Thanks Roger, Unfortunately, I get a "Document not Found" message.
Bertho From: [krokavadet](#) Sent: Thursday, March 26, 2009 02:15 > Scott, do you have a link to it? Is it this one? <http://tinyurl.com/ccjp4e> Roger [Non-text portions of this message have been removed]
[Bertho Boman](#) 26 Mar, 2009

Re: Has anyone actually tried Thorsten's all JFET "Alice" circuit?

--- In micbuilders@^\$1, Paul Doornbusch wrote: > > Scott, do you have a link to it? > > > I started to look at it in conjunction with another project (P48 phono stage). The 2SJ109's are almost impossible to get, but I figure even reasonably matched 2SJ74's will work. BTW the current noise of the PNP's
[krokavadet](#) 26 Mar, 2009

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[Paul Doornbusch](#) 25 Mar, 2009

Re: electret mikes - phantom power (capacitors and stuff)

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[usermo232000](#) 25 Mar, 2009

Re: 6.2 V Zeners in output

...Appreciate the comment. I remember seeing them in the original Schoeps circuit, but they are omitted in such designs as Scott Helmke's **Alice** mic, Bill Wall's design and others I have seen. Hence my question. > Another question: Are those zeners critical as to voltage...
[Jim G.](#) 22 Mar, 2009

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[David S](#) 22 Mar, 2009

Re: building large diaphragm condenser... need help

...find them. > > > > --- In micbuilders@^\$2, Scott Helmke wrote: > > > I've built a couple mics with the 2555A and the standard **Alice** circuit. > > Works just fine. > > > -Scott > > > Darryl wrote: > > > Hi Cody, > > > > > I recently built a mic with the 2555A...

Darryl 09 Mar, 2009

Re: building large diaphragm condenser... need help

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[codysimpsonrecording](#) 08 Mar, 2009

Re: [micbuilders] Re: building large diaphragm condenser... need help

I've built a couple mics with the 2555A and the standard **Alice** circuit. Works just fine. -Scott Darryl wrote: > Hi Cody, > > I recently built a mic with the 2555A using Jim G.'s "DIYgenericElectretMic...quiet and picks up well. If you're interested/bored, I recorded a grand piano a couple of weeks

[Scott Helmke](#) 08 Mar, 2009

Re: building large diaphragm condenser... need help

...quiet and picks up well. If you're interested/bored, I recorded a grand piano a couple of weeks ago with that mic and a TSB-165A "**Alice**"-type mic in a stereo reversed, ORTF/spaced pair arrangement.

<http://dmillette.fastmail.fm/recording/Piano%20Test%20-%203%20Pieces...>

[Darryl](#) 08 Mar, 2009

Cardioid stick bodies

...as possible. A picture of a nice stick mike with large round side holes graced our home page for some time. I thought it was an **Alice** version but it isn't. Anyone want to claim ownership?

[Richard Lee](#) 25 Feb, 2009

Re: TSB165A sensitivity?

...mike body > the better the enclosed unidirectional sounded. > Today I found Scott's web site and saw how I should have made the **Alice** mike. On mine the cartage holder is supported by a single wire soldered to the 1 inch copper pipe. There is nothing in the lower...

[berticevich](#) 25 Feb, 2009

Re: TSB165A sensitivity?

--- In micbuilders@^\$1, "berticevich" wrote: > > I made two **Alice** mikes like Scott's picture, one "unidirectional" (3 > opening cover with screening) and one with...on the back it really helps. I assume I made it > into a unidirectional mic. > > How can I make a **Alice** mic into a Omni and not [krokavadet](#) 23 Feb, 2009

Re: TSB165A sensitivity?

I made two **Alice** mikes like Scott's picture, one "unidirectional" (3 opening cover with screening) and one with no opening, "Omni" and when I switched between them the...putting foam in the back of the mic, etc. If I remove the cap on the back it really helps. I assume I made it into a [berticevich](#) 23 Feb, 2009

Re: Transsound capsule and internal FET

...transsound capsules. Looking for simple circuit, 48v capable, etc... I've seen the WM55, Naiant and some variation on the TSB165 (**alice** and cie). Still not sure wich one to pick ! > > I wonder which preamp/48v setup I should match them with ? > > Sorry Christian... [christian_rivest](#) 20 Feb, 2009

Re: [micbuilders] Re: TSB165A sensitivity?

...berticevich wrote: > Does anyone have a picture of a TSB165 mike that would be used like a > hand mic? <http://www.scotthelmke.com/Alice-kit/Capsule-mount/dscf0032.jpg> <http://www.scotthelmke.com/Alice-kit/Final-assembly/dscf0071.jpg> <http://www.scotthelmke.com/alice...> [Scott Helmke](#) 19 Feb, 2009

Re: TSB165A sensitivity?

...the mike design black magic. I would always start off with something which I know works and make small changes. Scott Helmke's **Alice** design is known to work well. If you change the holes or the volume behind, things will change. Go to a shop and look at all the... [Richard Lee](#) 19 Feb, 2009

Re: 1 Gig ohm resistor supply ?

...All the best, > Leon > --- In micbuilders@^\$1, "christian_rivest" > wrote:
> > > > Hi ! > > > > I've been ordering parts for some **Alice** mic and some
TSB165 mic > experimenting. > > > > I've been shocked by the price of the
little resistor needed for > almost any...

[Jim G.](#) 09 Feb, 2009

Re: 1 Gig ohm resistor supply ?

...4) ubar). All the best, Leon --- In micbuilders@^\$1, "christian_rivest"
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TSB165 mic experimenting. > > I've been shocked by the price of the little
resistor needed for almost any design...

[Leon Ament](#) 09 Feb, 2009

Parabolic Dish with Head Spaced Boundary

...delivery of 10 each of the TSB165s, 1G resistors and 2SK170s and hope
to have a go at making something, phantom powered, like an **Alice** mic or
Zapnspark's generic back electret condensor mic - the reason for my
order for 10 of each of the main components. Cheers...

[tk7859](#) 09 Feb, 2009

Re: 1 Gig ohm resistor supply ?

...disadvantage) of input clamping of transients. Back to back gate to drain
junctions of 2N4118A's work nicely. Don't forget in the **Alice** circuit the gate
bias goes to ground (or resistor divider) and now you can get large
nonlinearity with over .2V or so of input signal...

[usermo232000](#) 08 Feb, 2009

RE: [micbuilders] Re: 1 Gig ohm resistor supply ?

...Sat, 7 Feb 2009 06:34:54 -0800Subject: Re: [micbuilders] Re: 1 Gig ohm
resistor supply ? >>> I've been ordering parts for some **Alice** mic > and
some TSB165 mic >> experimenting. >>> >>> I've been shocked by the
price of the little > resistor needed for >> almost...

[Robert Munger](#) 07 Feb, 2009

Re: 1 Gig ohm resistor supply ?

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[Jim G.](#) 07 Feb, 2009

RE: [micbuilders] Re: 1 Gig ohm resistor supply ?

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[umashankar mantravadi](#) 07 Feb, 2009

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[krokavadet](#) 07 Feb, 2009

Re: [micbuilders] Re: 1 Gig ohm resistor supply ?

> > > I've been ordering parts for some **Alice** mic > and some TSB165 mic > > experimenting. > > > > > I've been shocked by the price of the little > resistor needed for > > almost any design !!! Between > > > 5 and 10\$ a piece. i found some 200 meg, 0603 smt resistors at mouser (71-crcw0603j-

[Nick Zuccaro](#) 07 Feb, 2009

Re: 1 Gig ohm resistor supply ?

...usermo232000" wrote: > > --- In micbuilders@^\$2, "christian_rivest" > wrote: > > > Hi ! > > > I've been ordering parts for some **Alice** mic and some TSB165 mic > experimenting. > > > I've been shocked by the price of the little resistor needed for > almost any...

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[userno232000](#) 07 Feb, 2009

Re: [micbuilders] 1 Gig ohm resistor supply ?

...series at Digi-key. Those were around \$3-4, I think. -Scott christian_rivest wrote: > Hi ! > > I've been ordering parts for some **Alice** mic and some TSB165 mic experimenting. > > I've been shocked by the price of the little resistor needed for almost any design...

[Scott Helmke](#) 07 Feb, 2009

1 Gig ohm resistor supply ?

Hi ! I've been ordering parts for some **Alice** mic and some TSB165 mic experimenting. I've been shocked by the price of the little resistor needed for almost any design !!! Between 5 and 10\$ a piece. Anyone have a clue of a good source for these....or alternativbve....I mean cheap.... thanks

[christian_rivest](#) 06 Feb, 2009

Re: DIY Mic for Roland R9 Recorder

...mic on the home page looks interesting, Can someone point me to > the thread that discusses this build? > > I was looking at the **Alice** mic and I have built a few **Alice** mics for a > friend and have **Alice** mic kit parts that he ordered for me. Tho the > **Alice** sounds...

[bK](#) 03 Feb, 2009

Re: [micbuilders] TSB165A sensitivity?

I've seen very little difference between capsules - all of the **Alice**-type mics I've built have the same output level and sound. Are you using the phantom powered circuit? Maybe the quiet ones have...

scott@scotthelmke.com 28 Jan, 2009

Re: Schoeps versus Bill Wall

Hello MicBuilders, I have built several mic using the schematic of **Alice**/Schoeps I really have good results with balanced circuit. But a friend would like a switchable low cut filter at 100Hz to have...

[Francis](#) 26 Jan, 2009

RE: [micbuilders] Re: Schoeps versus Bill Wall

...micbuilders@^\$, Richard Lee wrote:>> > Here a new schematic, <http://tinyurl.com/9hu466>> > > What about the necessity of D3, D4 and P1? **Alice** is also lacking Dr3, > Dr4, C12 and C13. Dr3 and Dr4 is ok. But C12 and C13 might be lower IMHO. 22nF with 6k8 will result in 6.7kV...

[umashankar mantravadi](#) 19 Jan, 2009

Re: Schoeps versus Bill Wall

> Here a new schematic, <http://tinyurl.com/9hu466> > What about the necessity of D3, D4 and P1? **Alice** is also lacking Dr3, Dr4, C12 and C13. If you have the space, by all means copy the Schoeps circuit exactly. Tried & tested is...

[Richard Lee](#) 18 Jan, 2009

RE: [micbuilders] Re: Schoeps versus Bill Wall

...moving coil preamp > in my directory.>Thank you for your replies!Here a new schematic, <http://tinyurl.com/9hu466> Compared to the **Alice** schematic some more components can be seen. What about the necessity of D3, D4 and P1? **Alice** is also lacking Dr3, Dr4, C12 and...

[umashankar mantravadi](#) 18 Jan, 2009

Re: Schoeps versus Bill Wall

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[krokavadet](#) 18 Jan, 2009

Re: Schoeps versus Bill Wall

...even SMD) in place of the BC264? Drain current is about 1mA. Should > the gate, drain and source resistors be changed? In the **Alice** > circuit, the 1GOhm gate resistor goes to ground. Is that not > as "good" as the way it is connected in the Schoeps schematic...

[usermo232000](#) 17 Jan, 2009

Re: Schoeps versus Bill Wall

...following the schematic in the files section,
<http://tech.groups.yahoo.com/group/micbuilders/files/Schematics/> Also looking at the **Alice** circuit of Helmke. I intend to make it as simple as possible in order to take up as little space as possible. With 12V

[krokavadet](#) 17 Jan, 2009

Re: mic capsule simulation code...

...IF you have the right info about it. I am using LT's switchercad and have a symbol and a working 'simplified' schoeps circuit (**alice**?) that it goes with, i can upload the whole thing as a .zip file with the schematic, new symbol and 2SK170 model if anybody else...

[usermo232000](#) 14 Jan, 2009

Re: mic capsule simulation code...

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[picnet2](#) 13 Jan, 2009

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[Nick Zuccaro](#) 13 Jan, 2009

Re: electret mikes - phantom power

...early Neves but modern desks should meet the relevant DIN & IEC standards & give 10mA each for loadsa mikes plugged in. However, **alice**,

mp3forkidz and marikECM8000mod should take much less than 10mA each so check your circuit values or better still, measure the...

[Richard Lee](#) 13 Jan, 2009

Re: electret mikes - phantom power (capacitors and stuff)

...and didn't > get that loud hum I expected... until I plugged second mic to make > stereo recording for A/B sound testing. Then "**alice**" started humming > very loud (~-40db), and "mp3forkids" too (~-65db) - much lower then > "**alice**", but still very noticeable. Then...

[schimmi_2](#) 12 Jan, 2009

Re: electret mikes - phantom power (capacitors and stuff)

...one and didn't get that loud hum I expected... until I plugged second mic to make stereo recording for A/B sound testing. Then "**alice**" started humming very loud (~-40db), and "mp3forkids" too (~-65db) - much lower then "**alice**", but still very noticeable. Then I...

[mihaelbele](#) 12 Jan, 2009

Re: electret mikes - phantom power

...1, Scott Helmke wrote: > > The main reason for no separate gain stage is that these mics have > surprisingly hot outputs. The **Alice** with a loud source produces an > almost line-level signal. What's needed is current-driving capability, > which is what the FET...

[krokavadet](#) 12 Jan, 2009

Re: electret mikes - phantom power (capacitors and stuff)

...select a quieter one and use smaller caps. Have fun, Dave Latchaw --- In micbuilders@^\$, Scott Helmke wrote: > > I built one test **Alice** mic with electrolytic capacitors in place of the > film capacitors in the signal path. It definitely sounded different... > a bit...

[dayVel](#) 11 Jan, 2009

Re: [micbuilders] Re: electret mikes - phantom power

I built one test **Alice** mic with electrolytic capacitors in place of the film capacitors in the signal path. It definitely sounded different...on (and you have the space for them.) > >> I have this loud 60Hz hum on Amek desk only, which is present >> with "**alice**" (almost) always, on "mp3forkids"

Scott Helmke 11 Jan, 2009

Re: electret mikes - phantom power

...really turns you on (and you have the space for them.) > I have this loud 60Hz hum on Amek desk only, which is present > with "**alice**" (almost) always, on "mp3forkids" never, on "marik" > only when "**alice**" is also plugged in the desk... also, in various > combinations...

Richard Crowley 11 Jan, 2009

Re: electret mikes - phantom power

...with wm61 capsule: few seconds of each adapter - "mp3forkidz" with 10k resistor between the capsule case and the ground, then "**alice**" then "marik's ecm8000 mod"

<http://peachpit.com.hr/upload/sites/0/44/files/myfiles/vault/mic/v123-mihaelbele>

mihaelbele 11 Jan, 2009

Re: [micbuilders] Re: electret mikes - phantom power

...response for a given SPL > > > The main reason for no separate gain stage is that these >> mics have >> surprisingly hot outputs. The **Alice** with a loud source >> produces an >> almost line-level signal. What's needed is >> current-driving capability, >> which is what...

Scott Helmke 11 Jan, 2009

Re: [micbuilders] Re: electret mikes - phantom power

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Nick Zuccaro 11 Jan, 2009

Re: [micbuilders] Re: electret mikes - phantom power

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Nick Zuccaro 11 Jan, 2009

Re: [micbuilders] Re: electret mikes - phantom power

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Scott Helmke 11 Jan, 2009

Re: electret mikes - phantom power

--- "mihaelbele" wrote: > Would someone be so kind to explain the role of each element on > the "mp3forkidz" or "**alice**" schematic? I'm building a mic with > wm55 capsules now (will try 2 capsules in fig8 arrangement, > connected in parallel), and...

Richard Crowley 11 Jan, 2009

Re: TSB-165A - padding question

You are correct. Scott's **Alice** circuit has the FET. I sort of figured that's what you meant. The reason I posted is that I get E-mails asking...Jim,B. - when i said microphone impedance, i meant output impedance > of the electrical circle of the **Alice** microphone (Scot Helmke's): >

Jim G. 08 Jan, 2009

Re: TSB-165A - padding question

Thanks for the answers. - Jim,B. - when i said microphone impedance, i meant output impedance of the electrical circle of the **Alice** microphone (Scot Helmke's): <http://www.scotthelmke.com/alice-schematic.jpg> As far as I understand, there is an impedance converter in the form of 2N4416 J-FET

frane_novak 08 Jan, 2009

Re: TSB-165A - padding question

...audio.com/pads/lpad.jpg). --- In micbuilders@^\$1, "frane_novak" wrote: > > What is the output impedance of TSB-165A microphone (**Alice** alike)? I'd > like to build a suitable pad for this mic. >

mihaelbele 06 Jan, 2009

electret mikes - phantom power

...but am still debugging it (low end loss). Would someone be so kind to

explain the role of each element on the "mp3forkidz" or "**alice**" schematic?
I'm building a mic with wm55 capsules now (will try 2 capsules in fig8 arrangement, connected in parallel), and would...
[mihaelbele](#) 06 Jan, 2009

TSB-165A - padding question

What is the output impedance of TSB-165A microphone (**Alice** alike)? I'd like to build a suitable pad for this mic.
[frane_novak](#) 06 Jan, 2009

Re: TSB-165A help

...using the TSB-165A. Archie: You must have been reading my mind because my next question was what FET I needed. I had looked at the **Alice** circuit and the TSB-165A circuit and it did not make since. I assume the person cut the circuit between the mike and the FET and...
[berticevich](#) 26 Dec, 2008

Re: TSB-165A help

...large part of why its so popular here. We get to choose and build the type of circuit we want. You might want to take a look at the **alice** circuit and its variations in the files area if you would like to use it with balanced inputs. I hope this helps Merry,Merry Happy...
[archie](#) 25 Dec, 2008

Re: DIY Mic for Roland R9 Recorder

...mic on the home page looks interesting, Can someone point me to > the thread that discusses this build? > > I was looking at the **Alice** mic and I have built a few **Alice** mics for a > friend and have **Alice** mic kit parts that he ordered for me. Tho the > **Alice** sounds...
[Klaus Hamlescher](#) 07 Dec, 2008

DIY Mic for Roland R9 Recorder

...The mic on the home page looks interesting, Can someone point me to the thread that discusses this build? I was looking at the **Alice** mic and I have built a few **Alice** mics for a friend and have **Alice** mic kit parts that he ordered for me. Tho the **Alice** sounds great...
[bK](#) 04 Dec, 2008

Re: Question about padding my Panasonic WM-55A103 capsule mic

...own microphones. I opted to make housings that were a bit less eclectic than the Altoid Tins, mine more resemble Scott Helmke's **Alice** microphones. I've done three in copper and two in Aluminum so far and they are all very nice sounding microphones for the money...

[Mike](#) 21 Nov, 2008

RE: [micbuilders] umashanks: about Brahma

...Brahma in a box looks very neat and I was wondering what> electronics you used for it? Your older 165A based unit> seems to use the **Alice** circuit 4 times, which of course> made the mic big and bulky, but the Brahma is much> sleeker.> > A related question: would you...

[umashankar mantravadi](#) 29 Oct, 2008

RE: [micbuilders] umashanks: about Brahma

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[umashankar mantravadi](#) 29 Oct, 2008

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[bblack](#) 28 Oct, 2008

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[bblack](#) 28 Oct, 2008

RE: [micbuilders] umashanks: about Brahma

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[umashankar mantravadi](#) 28 Oct, 2008

umashanks: about Brahma

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[qw1209po](#) 28 Oct, 2008

Re: Can the transound capsules take high spl?

Hello, I've experimented with the TSB-165 and the **Alice**/Schoeps circuit, and have had some success with toms and hihats by placing a 250pF capacitor in parallel...extensively. Darryl --- In micbuilders@^\$1, "leslie watts" wrote: > > A member has been building up some **alice** mics and

[Darryl](#) 27 Oct, 2008

RE: [micbuilders] Re: Can the transound capsules take high spl?

Good data! thanks! This BTW is Pipe's **Alice** mic inside a kick drum. As Scott said...the **Alice** was not intended to be a super high spl mic. In my Schoeps spice model clipping...

[leslie watts](#) 20 Oct, 2008

RE: [micbuilders] Re: Can the transound capsules take high spl?

...Saturday, October 18, 2008 7:18 PM To: micbuilders@^\$3 Subject: Re: [micbuilders] Re: Can the transound capsules take high spl? The **Alice** isn't really designed to be a high SPL mic anyway. Well, I dunno about "designed", there was a lot of discussion a few years back...

[leslie watts](#) 19 Oct, 2008

Re: Can the transound capsules take high spl?

...Capacitance Measurements TSB-160A 23 pF TSB-165A 24 pF TSB-2555A 39 pF ZAP --- In micbuilders@^\$1, Scott Helmke wrote: > > The **Alice** isn't really designed to be a high SPL mic anyway. Well, I > dunno about "designed", there was a lot of discussion a few years...

[Jim G.](#) 19 Oct, 2008

Re: [micbuilders] Re: Can the transound capsules take high spl?

The **Alice** isn't really designed to be a high SPL mic anyway. Well, I dunno about "designed", there was a lot of discussion a few years back that resulted in the **Alice** as my version of several variants. I'm more into acoustic stringed instruments, so SPL handling was not something I spent

[Scott Helmke](#) 19 Oct, 2008

Re: [micbuilders] Can the transound capsules take high spl?

...Seems like the circuitry overloads long before the capsule does. -Scott leslie watts wrote: > A member has been building up some **alice** mics and reports overloading when > used > inside a kick drum. He is not using a shunt capacitor (across the capsule) > pad or...

[Scott Helmke](#) 18 Oct, 2008

[micbuilders] Can the transound capsules take high spl?

A member has been building up some **alice** mics and reports overloading when used inside a kick drum. He is not using a shunt capacitor (across the capsule) pad or tweaked...

[leslie watts](#) 18 Oct, 2008

Juancho dice

...a B1. You have a 990 so keep it. In the end you will save yourself a lot of money and hassle. Mod the 990 then build a pair of '**Alice**' mics. Order the 990 mod and **Alice** parts at the same time to save on shipping.

~Microlotus~

[John Bierman](#) 17 Oct, 2008

Re: Schoeps MK IV capsule (now Sennheiser capsules)

...Don't underestimate Electret Mics. They look cheap, but can sound great. Check out Earthworks mics if you need convincing. The 'alice' is a great place to start for DIY builds. Build two identical 'alice' mics and you will be able to record with multiple stereo...

psi2006@yahoo.com.ar 16 Oct, 2008

Re: Schoeps MK IV capsule (now Sennheiser capsules)

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[John Bierman](#) 16 Oct, 2008

Re: Match Transistor Pairs for MCA mod/Alice etc (no scope required)

Wow! I wasn't aware you are a member of this site. It is an honor sir.
~Micro --- In micbuilders@^\$1, "dayVel" wrote: > > --- In micbuilders@^\$2, "handprintsoncavewalls" > wrote: > > > NTE159s can be purchased as match pairs. Matched within 10%. These are > > the choice of the
[handprintsoncavewalls](#) 09 Oct, 2008

Re: Match Transistor Pairs for MCA mod/Alice etc (no scope required)

--- In micbuilders@^\$1, "handprintsoncavewalls" wrote: > > NTE159s can be purchased as match pairs. Matched within 10%. These are > the choice of the mp3forkidz.com guy Dave Latchaw. Might be why he > uses them. >
> ~Micro > Well, no. I spec'd 'em cuz they're easy to source. That's all.
[dayVel](#) 08 Oct, 2008

Re: Match Transistor Pairs for MCA mod/Alice etc (no scope required)

That's where I got mine. It's a bright yellow CEN-TECH model unknown.
~Micro --- In micbuilders@^\$1, "Jim G." wrote: > > NTE159's are listed as \$1.75 each. > The alternative is to get BC559C (or BC560C) at about 7 cents each. > Then use a cheap meter that has an hfe measurement function to

[handprintsoncavewalls](#) 06 Oct, 2008

Re: Match Transistor Pairs for MCA mod/Alice etc (no scope required)

NTE159's are listed as \$1.75 each. The alternative is to get BC559C (or BC560C) at about 7 cents each. Then use a cheap meter that has an hfe measurement function to match those. (I just saw a meter with hfe at a Harbor Freight sale for \$3.00) That's how I do it. Just a thought. Jim G, [Jim G.](#) 06 Oct, 2008

Match Transistor Pairs for MCA mod/Alice etc (no scope required)

NTE159s can be purchased as match pairs. Matched within 10%. These are the choice of the mp3forkidz.com guy Dave Latchaw. Might be why he uses them. ~Micro
[handprintsoncavewalls](#) 06 Oct, 2008

Re: New to this Forum (MXL 990 mod)

...past postings: <http://mp3forkidz.com/mic>
<http://www.geocities.com/siliconvalley/peaks/5212/start.htm>
<http://www.scotthelmke.com/alice-mic.html>
http://www.epanorama.net/circuits/microphone_powering.html Told that let
psi2006@yahoo.com.ar 30 Sep, 2008

Re: capacitor choices, help please

...subject > can get so quickly. > > I have another question regarding the other caps, the electrolytics > going to ground. > > In the **Alice** parts list the 10uF shows 35V and the 100uF shows 100V. > > After reading some of the other posts, it seems like 35V is too low...
[krokavadet](#) 30 Sep, 2008

Re: [micbuilders] Re: capacitor choices, help please

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Scott Helmke 29 Sep, 2008

RE: [micbuilders] Re: capacitor choices, help please

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Robert Munger 29 Sep, 2008

Re: capacitor choices, help please

Thank you all very much! Its neat to see just how deep this subject can get so quickly. I have another question regarding the other caps, the electrolytics going to ground. In the **Alice** parts list the 10uF shows 35V and the 100uF shows 100V. After reading some of the other posts, it seems like pipelineaudio 29 Sep, 2008

RE: [micbuilders] capacitor choices, help please

...to be here as it looks like an excellent resource! > > I'm trying to build something on the schoep's style circuit, like the > **alice**, but in a smaller body. I was wondering if I couldn't substitute > a tantalum of equivalent rating but a much smaller physical...

Robert Munger 24 Sep, 2008

Re: [micbuilders] Re: capacitor choices, help please

...less components in the path to the JFET too. > > Roger You could certainly do the basic circuit with smaller capacitors, since the **Alice** circuit goes probably much lower than it really needs to. I also built an **Alice** with 10uF electrolytic caps once. It didn't sound...

scott@scotthelmke.com 24 Sep, 2008

Re: capacitor choices, help please

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krokavadet 24 Sep, 2008

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[usermo232000](#) 24 Sep, 2008

capacitor choices, help please

Hi all, nice to be here as it looks like an excellent resource! I'm trying to build something on the schoep's style circuit, like the **alice**, but in a smaller body. I was wondering if I couldn't substitute a tantalum of equivalent rating but a much smaller physical size for the two 0.47uF poly caps in this

[pipelineaudio](#) 24 Sep, 2008

New microphone - "Isaac"

It's finally done - another mic based around the TSB-2555 and with mostly the usual **Alice** circuitry. Basically more fun with packaging, though I want to see if there's any significant difference between this approach...

[Scott Helmke](#) 31 Aug, 2008

48v Phantom Power from 7.2v battery

...get the input DC blocking capacitors close in value to each other In the past I've easily got 90dB CMRR (20Hz-15k) using the same **Alice** MatchAmp modules I'm going to use, and a bit of care. So that leads me to believe the common mode aspect + most mics ability to...

[John Lundsten](#) 25 Aug, 2008

Re: [micbuilders] Re: Shoeps CMC-3?

Scott Wurcer: > The "**Alice**" mic circuit, I couldn't find the CMC-3 schematic. ><http://f1.grp.yahoo.com/v1/0H4-RWq3WfJYnolBitwx5FD6pN7J3bAHQd2l6nZaO8q79gbZLYG55FpESXyn91V>

[Goran Finnberg](#) 04 Jun, 2008

Re: Shoeps CMC-3?

--- In micbuilders@^\$1, Richard Lee wrote: > > >Is this the standard Shoeps/**Alice** circuit? The write up states, I think, no capacitors in the signal

path. This is not literally correct for the usual circuit...

[userno232000](#) 04 Jun, 2008

Re: M-Audio Microtrack II: enough 48v juice for 2 X Alice?

--- In micbuilders@^\$1, "qw1209po" wrote: > > What do you think? The MTII specs say: > > +48V, 7.5mA max per microphone > > That's not a whole lot. But is it enough? > > TIA! > The standard for Phantom Power, P48, says 48V +/-4V and a maximum current of 10mA. The "**Alice**" is a DIY [krokavadet](#) 04 Jun, 2008

M-Audio Microtrack II: enough 48v juice for 2 X Alice?

What do you think? The MTII specs say: +48V, 7.5mA max per microphone That's not a whole lot. But is it enough? TIA!
[qw1209po](#) 04 Jun, 2008

Re: Shoeps CMC-3?

>Is this the standard Shoeps/**Alice** circuit? The write up states, I think, no capacitors in the signal path. This is not literally correct for the usual circuit. Scott, where is this circuit that you're looking at? -- No virus found in this outgoing message. Checked by AVG. Version: 7.5.524 / Virus Database:
[Richard Lee](#) 03 Jun, 2008

Re: Shoeps CMC-3?

...micbuilders@^\$2, "Eric Benjamin" wrote: > > > > > ----- Original Message ----- > > From: userno232000 > > Is this the standard Shoeps/**Alice** circuit? The write up states, I > > think, no capacitors in the signal path. This is not literally > correct > > for the usual...
[userno232000](#) 02 Jun, 2008

Re: Shoeps CMC-3?

...micbuilders@^\$1, "Eric Benjamin" wrote: > > > ----- Original Message --- -- > From: userno232000 > > Is this the standard Shoeps/**Alice** circuit? The write up states, I > > think, no capacitors in the signal path. This is not literally correct > > for the usual circuit...
[Jim G.](#) 01 Jun, 2008

Re: [micbuilders] Shoeps CMC-3?

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[Eric Benjamin](#) 01 Jun, 2008

Shoeps CMC-3?

Is this the standard Shoeps/**Alice** circuit? The write up states, I think, no capacitors in the signal path. This is not literally correct for the usual circuit.

[userno232000](#) 01 Jun, 2008

Re: attenuation pad and high pass switch

...it causes the microphone's source impedance > to rise at low frequencies (bad for noise at mic preamp end). (not > applicable to **alice**/schoeps circuit, since it is direct coupled) > > in the **alice**/schoeps circuit, you might be able to do this by making > the coupling...

[ypasco](#) 27 Mar, 2008

Re: [micbuilders] attenuation pad and high pass switch

...as it causes the microphone's source impedance to rise at low frequencies (bad for noise at mic preamp end). (not applicable to **alice**/schoeps circuit, since it is direct coupled) in the **alice**/schoeps circuit, you might be able to do this by making the coupling...

[rick chinn](#) 27 Mar, 2008

attenuation pad and high pass switch

Hi all ! I try to find informations to modify the **Alice** schematic to include an attenuation pad and a high pass switch. I understande that adding a cap in parallel with the condenser...

[ypasco](#) 27 Mar, 2008

Re: Defective JFETs

...anything up. > >> It has 20-30 Ohms (rds, Vds=0) so this is good according to spec. I > >> can't get it work with TSB2555 and 1G (**Alice** Schematic). Capsule is > >> good - it sings with applied voltage. > >> > >

[usermo232000](#) 26 Mar, 2008

Re: [micbuilders] Re: Defective JFETs

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[Scott Helmke](#) 24 Mar, 2008

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[usermo232000](#) 24 Mar, 2008

Re: Defective JFETs

> FET that has a max gm of 10mS should be around 100 Ohms at low > voltage. This test can't inadvertently blow anything up. It has 20-30 Ohms (rds, Vds=0) so this is good according to spec. I can't get it work with TSB2555 and 1G (**Alice** Schematic). Capsule is good - it sings with applied

[Jack Zagaja](#) 24 Mar, 2008

Re: [micbuilders] Re: Sony ECM-377

right. it would be a candidate for the **Alice** or Schoeps circuit. when I modified mine, I just used the diffamp from my pzm modification, and fed the...that we are seeing. With the failing tranny on mic number 2 >perhaps this would be a good candidate for an **alice** or a schoeps circuit? > >Archie [rick chinn](#) 18 Mar, 2008

Re: Sony ECM-377

...difference, not the 12db that we are seeing. With the failing tranny on mic number 2 perhaps this would be a good candidate for an **alice** or a schoeps circuit? Archie -- In micbuilders@^\$1, rick chinn wrote: > > the spec sheet sez: > > 0dBm = 1mw/10uBar/1khz > > pad...

[archie](#) 18 Mar, 2008

Re: Alice & INA217 OPA1632

--- In micbuilders@^\$1, "Jack Zagaja" wrote: > > Gentleman, > > I've run schematic from Files > Nakamichi CM-300 > circuits->**alice**&INA217.pdf but with OPA1632 and its schematic from > datasheet: > > www.focus.ti.com/lit/ds/symlink/opa1632.pdf > page 6 > > TSB2555...
[usermo232000](#) 19 Feb, 2008

Alice & INA217 OPA1632

Gentleman, I've run schematic from Files > Nakamichi CM-300 circuits->**alice**&INA217.pdf but with OPA1632 and its schematic from datasheet: www.focus.ti.com/lit/ds/symlink/opa1632.pdf page 6 TSB2555 capsule...only small buzzzz and low overall noise. How I can check this
[Jack Zagaja](#) 19 Feb, 2008

Re: Ambisonic Mic questions

...ohm resistor soldered on to the back of the> circuit board as standard,. I was going to follow Scott Helmkes> schematic for his **alice** mic, so should I remove this resistor? and> replace it with a smd 1GOhm resistor?> > Will the standard fet work that the capsule...
[mkoijnmkoijn](#) 12 Feb, 2008

RE: [micbuilders] Ambisonic Mic questions

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[umashankar mantravadi](#) 12 Feb, 2008

Re: [micbuilders] Ambisonic Mic questions

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[Scott Helmke](#) 12 Feb, 2008

Ambisonic Mic questions

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[mkoijnmkoijn](#) 11 Feb, 2008

New file uploaded to micbuilders

...notification to let you know that a file has been uploaded to the Files area of the micbuilders group. File : /Nakamichi CM-300 circuits/**alice**&INA217.pdf Uploaded by : krokavadet Description : Micamp with INA217 and SSM2142 You can access this file at the URL:

micbuilders@yahoo.com 05 Feb, 2008

Re: Baxandall's RF mike

>Could you guide me which circuit after Schoeps/**Alice**? What do you need that's not provided by a good Schoeps type circuit? Schoeps Mk2 is one of the quietest mikes around, as good...

[Richard Lee](#) 04 Feb, 2008

Re: Baxandall's RF mike - dynamic range

> Uwe writes above RF circuit is difficult and not for beginners. Could > you guide me which circuit after Schoeps/**Alice**? The output is meant to > be balanced I would stay balanced after some amplification to feed > balanced mixers. Two opamps or ICs or ...? INA163 has an differential

[Jack Zagaja](#) 03 Feb, 2008

Re: Baxandall's RF mike - dynamic range

Uwe writes above RF circuit is difficult and not for beginners. Could you guide me which circuit after Schoeps/**Alice**? The output is meant to be balanced I would stay balanced after some amplification to feed balanced mixers. Two opamps or ICs or ...?

[Jack Zagaja](#) 03 Feb, 2008

Re: Comparison Question

...considering > the > > > design of my next mics. > > > > > Jay > > > > > --- In micbuilders@^\$4, "Jim G." wrote: > > > > > > The "**Alice**" circuit is very similar to the Schoeps CMC-5 > circuit. > > > The Schoeps

CMC has an internal capsule polarizing voltage...

[mark.fouxman](#) 31 Jan, 2008

Re: Comparison Question

...the E@thw^rks. But does anyone have any advice as to what a higher end "Flat" mic driver might work like. I'm pleased with the **Alice** circuit, but there is always room for improvement, so if anyone has a circuit that performs better in the noise area or some other...

[overflownpro](#) 30 Jan, 2008

Re: [micbuilders] Re: Baxandall's RF mike - dynamic range

...FET setup as the capsules with the built-in FET - so the same high noise level. But if you do a decent circuit like the Shoeps/**Alice** it's much quieter - pro studio quiet. -Scott > Let me calculate: > > TSB2555 sensitivity -47dBV re 1Pa or ca. 5mV/Pa. Extreme quiet...

[scott@scotthelmke.com](#) 28 Jan, 2008

Re: Comparison Question

...considering > the > > > design of my next mics. > > > > Jay > > > > --- In micbuilders@^\$4, "Jim G." wrote: > > > > > The "**Alice**" circuit is very similar to the Schoeps CMC-5 > circuit. > > > The Schoeps CMC has an internal capsule polarizing voltage...

[mac53532000](#) 25 Jan, 2008

Re: Comparison Question

...helpful in considering the > > design of my next mics. > > > Jay > > > --- In micbuilders@^\$3, "Jim G." wrote: > > > > > The "**Alice**" circuit is very similar to the Schoeps CMC-5 circuit. > > > The Schoeps CMC has an internal capsule polarizing voltage > generator...

[Jim G.](#) 24 Jan, 2008

Re: Comparison Question

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[eriksmusicproduction](#) 24 Jan, 2008

Re: Comparison Question

...electronically that would surely be helpful in considering the design of my next mics. Jay --- In micbuilders@^\$1, "Jim G." wrote: > > The "**Alice**" circuit is very similar to the Schoeps CMC-5 circuit. > The Schoeps CMC has an internal capsule polarizing voltage generator...

[overflownpro](#) 24 Jan, 2008

Re: Comparison Question

The "**Alice**" circuit is very similar to the Schoeps CMC-5 circuit. The Schoeps CMC has an internal capsule polarizing voltage generator. The "**Alice**" usually uses a permanently polarized electret capsule and requires no polarizing supply. The Earthworks microphones are a completely...

[Jim G.](#) 24 Jan, 2008

Comparison Question

Just a quick question to hopefully end an ongoing debate. When comparing the "**Alice**" circuit used by many DIY guys, would it be more accurate to compare the microphone to the Schoeps Micro Series (ie. the CMC 5...

[overflownpro](#) 24 Jan, 2008

RE: [micbuilders] FETs & op-amp preamp inside mic body

...be suspect too. For a mike, you also have to arrange phantom power and balanced output. Far simpler to use one of Zap's Schoeps / **Alice** variants with the above FETs. If you are feeding only a metre or so to an MP3 recorder, you might get away with FET source follower...

[umashankar mantravadi](#) 17 Jan, 2008

FETs & op-amp preamp inside mic body

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[Richard Lee](#) 17 Jan, 2008

Re: Attenuation switch and fig 8 pattern.

...In micbuilders@^\$4, "eriksmusicproduction" > > wrote: > > > > > > >
Hello. > > > > > > I'm going to be building several "**alice**" type mics for
mainly > > drums. > > > However they will be fig-8 pattern with two tsb-
165a's back to > > back > > > similar...
[eriksmusicproduction](#) 15 Jan, 2008

Re: Attenuation switch and fig 8 pattern.

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[Jim G.](#) 14 Jan, 2008

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[rick chinn](#) 14 Jan, 2008

Re: Attenuation switch and fig 8 pattern.

...2sbwfb > > ZAP > > --- In micbuilders@^\$2, "eriksmusicproduction" >
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mics for mainly drums. > > > However they will be fig-8 pattern with two tsb-
165a's back to back > > > similar to the neuman...
[eriksmusicproduction](#) 14 Jan, 2008

Anyone tried Transsound's TSB-1460a and TSB160a?

...lot of comments about the Transsound capsules, above all the tsb-165a,
which Scott with his **Alice** build seems to have helped quite a bit in
becoming popular. I know I want some for diy-ing...least on the transsound
graph. 3) Did anyone make their own measurements of noise, e.g. on the
[Dominique Miagat](#) 14 Jan, 2008

Re: Attenuation switch and fig 8 pattern.

...tinyurl.com/2sbwfb ZAP --- In micbuilders@^\$1, "eriksmusicproduction"
wrote: > > Hello. > > I'm going to be building several "**alice**" type mics for

mainly drums. > However they will be fig-8 pattern with two tsb-165a's back to back > similar to the neuman km-86...

[Jim G.](#) 12 Jan, 2008

Attenuation switch and fig 8 pattern.

Hello. I'm going to be building several "**alice**" type mics for mainly drums. However they will be fig-8 pattern with two tsb-165a's back to back similar to the neuman km-86. I would also like to install a pad into the circuit. Does anybody know where to find info on inserting a pad and fig-8 functions into [eriksmusicproduction](#) 12 Jan, 2008

RE: [micbuilders] Re: Schoeps circuit analysis

...highly possible eh ? Please let me ask this time about an alternative to ordering the rare 1G resistor , as seen in the BOM of the **Alice** mic. What do you think practically about putting 25 resistor in parallel, of 40Mohm ea. ? Would that bunch of resistors affect...

[Brian Dasilva](#) 18 Dec, 2007

Re: Schoeps circuit analysis

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[usermo232000](#) 17 Dec, 2007

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[veniaver2006@yahoo.ca](#) 17 Dec, 2007

Clara mic, inside photo

...scotthelmke.com/clara-mic-2.jpg Maybe you were expecting something more complicated? The bulk of the electronics, once again the **Alice** circuit, live in a separate box. What you see on the back there is the FET and 1Gohm resistor. I'm building two pair of these mics...

[Scott Helmke](#) 13 Dec, 2007

Re: [micbuilders] Re: A source for 1 gig resistors

I used ones that size in a few mics. They're not very convenient for fitting into an **Alice** or other tight package, but otherwise not bad. -Scott On Sunday 18 November 2007 03:50:26 pm Jim G. wrote: > Dimensions are...
[Scott Helmke](#) 18 Nov, 2007

Re: [micbuilders] Re: Need some advice and help--

...you have on hand or can buy at Radio Shack" vs. buying from maybe 3-4 different suppliers. The **Alice** BOM should really be done with Digi-key parts, because (when I've checked in recent months...the circuit so someone looking at the > Files folder has all the info in one place. > > eg for
[Scott Helmke](#) 17 Nov, 2007

Re: Need some advice and help--

...micbuilders@^\$1, Richard Lee wrote: > One thing we can do straight away is to be better at organising the info in Files. > eg for **Alice**, Eric's pdf analysis, "Simplified internal microphone preamplifier utilizing the capsule FET and PNP emitter followers" could usefully...
[Jim G.](#) 15 Nov, 2007

Re: Need some advice and help--

...away is to be better at organising the info in Files. The exemplar should be Scott Helmke's **Alice**. This is how a mike circuit should be presented; with parts list and specific recommendations...as the circuit so someone looking at the Files folder has all the info in one place. eg for **Alice**, Eric's
[Richard Lee](#) 14 Nov, 2007

Re: [micbuilders] DIY Ribbon Mic Characterization Plots

...rickshawrecords.com/ribbonmic Producing mics for sale doesn't have to be on the scale of building a factory. I've been building **Alice** mics on and off, and selling a few every year. I still do it mostly by hand, but I figured out how to do various parts more efficiently...
[Scott Helmke](#) 14 Nov, 2007

Re: [micbuilders] Re: Need some advice and help--

...of materials for building specific > mics to > start with. I do have a (perhaps stale) list of Mouser parts for > building the **Alice** mic on my webpage, along with info about ordering > capsules from JLI. It would certainly be handy for a fair number of > newbies...

[Mike Darling](#) 13 Nov, 2007

Re: [micbuilders] Re: Need some advice and help--

...useful bill of materials for building specific mics to start with. I do have a (perhaps stale) list of Mouser parts for building the **Alice** mic on my webpage, along with info about ordering capsules from JLI. It would certainly be handy for a fair number of newbies if...

[Scott Helmke](#) 13 Nov, 2007

Re: [micbuilders] Re: WM-61A Linkwitz mod mic for phantom power

...internal microphone preamplifier utilizing the capsule FET and PNP emitter followers" > > Scott Helmke also has a version of his **Alice** circuit using WM-61A type capsules with integral FETs. It's called phantom-power-2.gif but I can't remember where it lives...

[Chris](#) 06 Nov, 2007

Re: WM-61A Linkwitz mod mic for phantom power

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[dayVel](#) 06 Nov, 2007

Re: WM-61A Linkwitz mod mic for phantom power

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[eeehaah](#) 06 Nov, 2007

Re: WM-61A Linkwitz mod mic for phantom power

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[Richard Lee](#) 06 Nov, 2007

schoeps circuit analysis

a while back i asked for a explanation of this circuit (using the "**alice**" microphone as an example. eric benjamin and richard peet wrote two very helpful explanations that are now available in the files...

[seavote](#) 06 Nov, 2007

Re: The Mysterious Schoeps Oscillator

...effect. > that the 10uF cap to ground that lay at the junction of the 330ohm resistor, the 6.8K resistor, and the 12v zener in the **Alice** schematic is ineffective (This also was C5 in Jim G's former versions, i.e. 8-7-07. His currently posted schematic does NOT have...

[Richard Lee](#) 11 Oct, 2007

Re: Schoeps circuit - Controversy over 10uF cap in Helmke's Alice version settled?

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[Jim G.](#) 10 Oct, 2007

Schoeps circuit - Controversy over 10uF cap in Helmke's Alice version settled?

...message/7688 that the 10uF cap to ground that lay at the junction of the 330ohm resistor, the 6.8K resistor, and the 12v zener in the **Alice** schematic is ineffective (This also was C5 in Jim G's former versions, i.e. 8-7-07. His currently posted schematic does NOT have...

[Sanaka](#) 10 Oct, 2007

RE: [micbuilders] Re: Schoeps schematic part omission

...noise (or distortion) depends on the source resistance. The zener may have a source resistance of eg 10R. At the drain 2K2, the (**Alice**) source resistance is $330 + 10 = 340R$. Here a capacitor is 34x better at reducing ALL noise than at the zener. ie 10u there is equivalent...

[umashankar mantravadi](#) 02 Oct, 2007

Re: Schoeps schematic part omission

...noise (or distortion) depends on the source resistance. The zener may have a source resistance of eg 10R. At the drain 2K2, the (**Alice**) source resistance is $330 + 10 = 340R$. Here a capacitor is 34x better at reducing ALL noise than at the zener. ie 10u there is...

[Richard Lee](#) 02 Oct, 2007

Variations - Six Schoeps Style Schematics

...the last several days in the awesome "Schoeps schematic part omission" thread that has been going on. First is the foundational **Alice** by Scott H., then adding the cap suggested by ZAP, then adding protection diodes, then arrangements of the cap that lays across...

[Sanaka](#) 01 Oct, 2007

RE: Schoeps schematic part omission

...Wuttke has a capacitor across his zener but that feeds his 2k drain resistor directly so needs it. I like JG's versions of the **Alice**/Schoeps circuits especially the pdf dtd 2006-10-13 However, JG's D1 & D3 should never be left out even if high voltage transistors...

[Richard Lee](#) 30 Sep, 2007

Re: [micbuilders] Re: Schoeps schematic part omission

Wow - that's seriously interesting. I'll definitely have to try an **Alice** with the capacitor added to see if there's an audible difference. Hmm... unless I'm mistaken, "twice the frequency" also means...

[Scott Helmke](#) 27 Sep, 2007

Re: Please verify this Alice schematic for me...

Thanks so much, Scott. I'll probably feel like you do about schematics if

ever I gain sufficient electronics comprehension. For now, I draw in a way that lets me visualize more closely how I'll need to do the soldering, if that makes any sense. I appreciate the circuit analysis/breakdown. I had made
[Sanaka](#) 27 Sep, 2007

Re: [micbuilders] Re: Please verify this Alice schematic for me...

...original. > > If you can verify please let me know :-)> > Again, here's Scott's original drawing: > <http://www.scotthelmke.com/alice-schematic.jpg>
> > And here's my redraw: >
<http://sanaka.smugmug.com/photos/199692481-L.jpg> > > Peace, > Sanaka
[Scott Helmke](#) 27 Sep, 2007

RE: [micbuilders] Re: Please verify this Alice schematic for me...

...sanaka@^\$2> Date: Wed, 26 Sep 2007 04:25:07 +0000> Subject:
[micbuilders] Re: Please verify this **Alice** schematic for me...>> Just bumping this.> If it is correct, then I'd like to make a generic...and as a jumping off>> point for thinking about modifications, I've redrawn Scott
[Robert Munger](#) 26 Sep, 2007

Re: Please verify this Alice schematic for me...

...several days. I exchanged emails with Stefan Avolos who borrowed some elements from your schematics and imposed them onto the basic "**Alice**" layout. He didn't add the missing cap in question, however. I will (mostly for my own "process") make a schematic I'll call "Minimal..."
[Sanaka](#) 26 Sep, 2007

Re: Please verify this Alice schematic for me...

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And here's my redraw: <http://sanaka.smugmug.com/photos/199692481-L.jpg> Peace. Sanaka --- In micbuilders@^\$1. "thepompousdwarf...
[Sanaka](#) 26 Sep, 2007

Re: [micbuilders] Re: Please verify this Alice schematic for me...

This is a really great idea! JD thepompousdwarf wrote: "Rich Peet" wrote: >
> I see value in this for a bunch of people. > Also, the redraw is very nice
and I will base the work on that. Thanks, richpeet. It would be cool if this
was helpful for others. However, I have no actual electronics training, and I
[Joseph Diliberto](#) 24 Sep, 2007

Re: Please verify this Alice schematic for me...

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redraw is very nice and I will base the work on that. Thanks, richpeet. It
would be cool if this was helpful for others. However, I have no actual
electronics training, and I would characterize my self-taught level as
[thepompousdwarf](#) 24 Sep, 2007

Re: Please verify this Alice schematic for me...

...will base the work on that. I have created a folder in the files section for
this. look at aa-**alice** folder. I will start a document breaking out the
components and the use of each. I welcome and...the several earth
symbols. > > Here's Scott's original drawing: >
[Rich Peet](#) 24 Sep, 2007

Please verify this Alice schematic for me...

...aid my own brain's slow comprehension, and as a jumping off point for
thinking about modifications, I've redrawn Scott Helmke's **Alice** schematic,
I think. I'm hoping for some peer review here to verify whether my
drawing is in fact electrically identical to Scott...
[thepompousdwarf](#) 24 Sep, 2007

Re: [micbuilders] schoeps fet circuit

lets take the **Alice** mic as an example. schematic here:
<http://www.scotthelmke.com/alice-schematic.jpg> ----- Original Message ---

-- From: Robert Munger...

Chris V 22 Sep, 2007

Re: Resistor value for TSB-140's in Helmke circuit?

...transsound caps use > on the order of a couple volts up to maybe 10v, a lot less than the > 48v a phantom supply is providing to the **Alice** or whatever. Is it > these two resistors that determine the voltage actually given to the > capsule/FET? How would one calculate...

krokavadet 10 Sep, 2007

Re: Resistor value for TSB-140's in Helmke circuit?

...a couple volts up to maybe 10v, a lot less than the 48v a phantom supply is providing to the **Alice** or whatever. Is it these two resistors that determine the voltage actually given to the capsule...the two > > resistors that branch off right before the .47uF caps. They are 2k2 > > for the **Alice** version, and thepompousdwarf 10 Sep, 2007

Re: [micbuilders] Resistor value for TSB-140's in Helmke circuit?

...the characteristics of the internal FET of the capsule, or the external FET in the case of the **Alice**. There's another version somewhere with the 2k2 resistors on the TSB-140A. Basically what happened...comparison: > > <http://sanaka.smugmug.com/photos/192810811-L.jpg> > > The upper one is Scott Helmke 08 Sep, 2007

Resistor value for TSB-140's in Helmke circuit?

...circuit from his page, put on one sheet for comparison: <http://sanaka.smugmug.com/photos/192810811-L.jpg> The upper one is the famous "**Alice**" circuit for capsules like the TSB-165 which need an external FET and 1G resistor. The other version is absent the external FET... thepompousdwarf 07 Sep, 2007

Re: Making the Connection?

...Files section under Zapnsark > > ZAP > > --- In micbuilders@^\$2, umashankar mantravadi > wrote: > > > > no. it is the one called **alice** is the dayvel circuit. (or am i > getting confused?) > > > > umashankar > > > > i

overflownpro 28 Aug, 2007

Re: Making the Connection?

...It's in the Files section under Zapnspark ZAP --- In micbuilders@^\$1, umashankar mantravadi wrote: > > no. it is the one called **alice** is the dayvel circuit. (or am i getting confused?) > > umashankar > > i have published my poems. read (or buy) at <http://stores...>

Jim G. 28 Aug, 2007

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umashankar mantravadi 28 Aug, 2007

Re: [micbuilders] Re: P48 Powered Electret Mic

...solid ground connection. > >-Scott > >On Friday 24 August 2007 01:50:13 am zog2zog2003 wrote: > > Hey Scott, > > I put together an **Alice**-schematic mic today, finishing it up now. > > Has the phantom power. Used a TsB-160a, planning to do a pair of > > them. For a...

Robert Munger 25 Aug, 2007

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Scott Helmke 25 Aug, 2007

Re: P48 Powered Electret Mic

Hey Scott, I put together an **Alice**-schematic mic today, finishing it up now. Has the phantom power. Used a TsB-160a, planning to do a pair of them...Monday 20 August 2007 04:52:44 pm bg2496 wrote: > > I put together a 48+ powered electret mic based on the "**Alice**" schem. > > It

zog2zog2003 24 Aug, 2007

Re: [micbuilders] P48 Powered Electret Mic

...Scott > > On Monday 20 August 2007 04:52:44 pm bg2496 wrote: > > I put together a 48+ powered electret mic based > on the "**Alice**" schem. > > It does work, but it has a very loud hum. I've > switched out > > capacitors and transistors without any change...

[Stefan Avalos](#) 21 Aug, 2007

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[bg2496](#) 21 Aug, 2007

Re: [micbuilders] P48 Powered Electret Mic

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[Brian Dasilva](#) 21 Aug, 2007

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[Robert Munger](#) 20 Aug, 2007

P48 Powered Electret Mic

I put together a 48+ powered electret mic based on the "**Alice**" schem. It does work, but it has a very loud hum. I've switched out capacitors and transistors without any change. I'm wondering if it has anything to do with the long component leads, being on a breadboard with long leads. If
[bg2496](#) 20 Aug, 2007

Re: Modded WM-61A For Phantom Power

...circuit for the modded Pan. capsules, does the 6k8 > > resistor connect to the transistor collectors or not? In the > original > > **Alice** circuit, it does, but in this one the dot is missing. > > > I also am curious if someone could explain the difference between...
[Jim G.](#) 08 Aug, 2007

Re: [micbuilders] Modded WM-61A For Phantom Power

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[Scott Helmke](#) 08 Aug, 2007

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[bg2496](#) 07 Aug, 2007

RE: [micbuilders] Opinions requested: Project for broken studio condenser mic?

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[Robert Munger](#) 28 Jul, 2007

Opinions requested: Project for broken studio condenser mic?

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[Dave B](#) 28 Jul, 2007

Re: My First Microphone(s)

I see what you mean. I think I'll just build a generic "**Alice**" first. For the Schoeps circuit, why the 1G resistor? Why not a much cheaper 5M resistor instead? I'd bet that there's roughly...

[spastic_teapot](#) 09 Jun, 2007

Re: My First Microphone(s)

...micbuilders@^\$1, scott@^\$2.. wrote: > > At the risk of pushing my own webpage, here's how I use the TSB-165: >

<http://www.scotthelmke.com/alice-mic.html> > > You could also do a web search - some other folks have built similar > microphones. > > -Scott > >

[spastic_teapot](#) 06 Jun, 2007

Re: [micbuilders] My First Microphone(s)

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scott@scotthelmke.com 06 Jun, 2007

Re: [micbuilders] Re: Recording Fireworks

...also showed the mics's and preamps ability to take loud, quick Bangs without distorting. The **Alice**-Alike mics are Cardioid microphones. If you really want a crazy-natural stereo effect, You might...the 4th of july - recorded with a laptop and a usb > > interface. The microphones were the [Stefan Avalos](#) 27 Apr, 2007

Re: Recording Fireworks

...don't think I'll take the VCR route. Although thanks for the idea. >>The microphones were the **Alice** Alikes. When you say microphones, how many did you use to make that recording? Do you recall...on > the 4th of july - recorded with a laptop and a usb > interface. The microphones were the [tycoonbrad](#) 27 Apr, 2007

RE: [micbuilders] Recording Fireworks

...a recording of precisely my street on >the 4th of july - recorded with a laptop and a usb >interface. The microphones were the **Alice** Alikes. > >http://www.stefanavalos.com/fireworks_on_alvarado_st.mp3 > >How's that for proof of concept? > > > > >--- Robert...
[Robert Munger](#) 27 Apr, 2007

RE: [micbuilders] Recording Fireworks

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[Stefan Avalos](#) 27 Apr, 2007

Re: Rif: Re: [micbuilders] At long last - piano mic test MP3 files

...Saturday 21 April 2007 14:27, Mike Feldman wrote: > > > > Assuming the FET you add is quiet enough! You go > > > > > > on to say **Alice**... > > > OK, quiet enough for recording acoustic *music*. > > > But I do

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[Robert Munger](#) 22 Apr, 2007

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[Robert Munger](#) 22 Apr, 2007

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[Scott Helmke](#) 22 Apr, 2007

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[Stefan Avalos](#) 21 Apr, 2007

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[Robert Munger](#) 21 Apr, 2007

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[Scott Helmke](#) 21 Apr, 2007

Re: Rif: Re: [micbuilders] At long last - piano mic test MP3 files

...no built-in FET, > so it's quiet enough for recording acoustic stuff. Assuming the FET you add is quiet enough! You go on to say **Alice**... > A couple photos of one of the capsules: > <http://www.scotthelmke.com/shotgun-1.jpg> >

[Mike Feldman](#) 21 Apr, 2007

Re: Rif: Re: [micbuilders] At long last - piano mic test MP3 files

...the capsules: <http://www.scotthelmke.com/shotgun-1.jpg> <http://www.scotthelmke.com/shotgun-2.jpg> The circuitry is the same as my **Alice** mics - the FET and 1Gohm resistor are mounted on the back of the mic, and the rest is in a separate box. I'm not sure why I decided...

[Scott Helmke](#) 21 Apr, 2007

Re: [micbuilders] Microphone body construction.

...have pictures of it :) Is it the mic mentioned in your other post (stereo and with included preamp?) I'm planning to build an "**Alice**"-type mic soon too, probably in an aluminium tube. Cheers, Dominique ----- Original Message ---
--- From: "minimal_nisios" To: Sent...

[Dominique M](#) 05 Apr, 2007

Re: Newbie Resistor Question

...Thanks --- In micbuilders@^\$1, Goran Finnberg wrote: > > "theskyone" aka unknown wrote: > > I bought my 1M resistors for the "**Alice**" circuit, > > that Scott Helmke has outlined, from Digikey for > > about \$5 a piece. I noticed 1M 1/4 watt > > Do you mean the...

[theskyone](#) 12 Mar, 2007

Re: [micbuilders] Newbie Resistor Question

"theskyone" aka unknown wrote: > I bought my 1M resistors for the "**Alice**" circuit, > that Scott Helmke has outlined, from Digikey for > about \$5 a piece. I noticed 1M 1/4 watt Do you mean the 1G ohm gate...

[Goran Finnberg](#) 12 Mar, 2007

Newbie Resistor Question

I bought my 1M resistors for the "**Alice**" circuit, that Scott Helmke has outlined, from Digikey for about \$5 a piece. I noticed 1M 1/4 watt resistors on the Electronic Goldmine for \$3.50/100 pieces. Would these work instead of the \$5 pieces? <http://www.goldmine-elec-products.com/prodinfo.asp?>

[theskyone](#) 12 Mar, 2007

Re: Omni capsules?

...cardioid towards omni than going towards hyper. One thing which will improve is the bass response. If you are modifying an existing **Alice**, wrap some tape to seal off the vents in the stick tube too else this cavity does nasty things. BTW its not enough to seal of the...

[Richard Lee](#) 04 Mar, 2007

Re: Omni capsules?

...a Panasonic- style omni > capsule without the usual built-in FET. Basically just a raw capsule, which > could (I assume) use an **Alice** circuit for very low noise. He said that he's > looking into carrying such capsules. > > The big question is, what kind of demand...

[krokavadet](#) 03 Mar, 2007

Re: [micbuilders] Re: New shotgun mic capsules

...isn't a > > > complete mic, I just put an FET and 1Gohm resistor in there. The > > rest of the > > > circuit (same as the usual **Alice**) is in an external box. > > > So I haven't spent much time testing it out, but I did put in maybe > > an hour > > > last night...

[Scott Helmke](#) 03 Mar, 2007

Re: New shotgun mic capsules

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[theskyone](#) 03 Mar, 2007

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[Jim G.](#) 03 Mar, 2007

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[umashankar mantravadi](#) 03 Mar, 2007

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[Scott Helmke](#) 03 Mar, 2007

New shotgun mic capsules

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external box. So I haven't spent much time testing it out, but I did put in maybe an hour last night with my acoustic...

[Scott Helmke](#) 02 Mar, 2007

Re: [micbuilders] What do the components of the "Alice Mic" schematic do?

...somewhere? Yes, here: <http://scotthelmke.com/Battery-box.jpg> Doesn't show the capsule/FET/1G part, but that bit is the same as the **Alice**. Nothing special about the stuff around the 9v battery on the left, I did it because I was running two circuits off one battery...

[Scott Helmke](#) 22 Feb, 2007

What do the components of the "Alice Mic" schematic do?

Hi, I've been trying to get the **Alice** Mic to work, but get tons of distortion. First off, I need to admit that I've been trying to take some short cuts (using whatever...

[georgeserumgard](#) 21 Feb, 2007

Re: Condensor Capsule Phase

...That sounds like the current schematic, which can be found at > <http://www.scotthelmke.com/alice-schematic.jpg> > > I thought this whole polarity thing through a while back, and it > usually...Helmke. > > > > I've got a circuit GIF which I think is yours. It says > > > > Schematic for "**Alice**"

[dayVel](#) 01 Jan, 2007

Re: [micbuilders] Re: Condensor Capsule Phase

That sounds like the current schematic, which can be found at <http://www.scotthelmke.com/alice-schematic.jpg> I thought this whole polarity thing through a while back, and it usually seems...output. -Scott On Monday 01 January 2007 04:31, Richard Lee wrote: > > I do check finished

[Scott Helmke](#) 01 Jan, 2007

Re: Condensor Capsule Phase

...excites the diaphragm electrostatically. But for polarized ones... --- In micbuilders@^\$1, Richard Lee wrote: > > > > Anyone checked an **Alice** (TSB165) mike for "Polarity" and traced it to the capsule/FET gate? > >

[soongsc](#) 01 Jan, 2007

Re: Condensor Capsule Phase

>> Anyone checked an **Alice** (TSB165) mike for "Polarity" and traced it to the capsule/FET gate? Scott H : >I do check finished mics (**Alice** and otherwise) for...the output does have correct polarity. Thanks Mr. Helmke. I've got a circuit GIF which I think is yours. It says Schematic for "**Alice**"
[Richard Lee](#) 01 Jan, 2007

Re: [micbuilders] Re: Condensor Capsule Phase

On Sunday 31 December 2006 03:59, Richard Lee wrote: > Anyone checked an **Alice** (TSB165) mike for "Polarity" and traced it > to the capsule/FET gate? I do check finished mics (**Alice** and otherwise) for correct...
[Scott Helmke](#) 31 Dec, 2006

Re: Condensor Capsule Phase

...thanks for this George. Have you a link for the Wallin preamp II you use?
> > Preferably with a circuit. > > Anyone checked an **Alice** (TSB165) mike for "Polarity" and traced it to the capsule/FET gate? > > -- > No virus found in this outgoing message. > Checked...
[soongsc](#) 31 Dec, 2006

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...inverts. Many thanks for this George. Have you a link for the Wallin preamp II you use? Preferably with a circuit. Anyone checked an **Alice** (TSB165) mike for "Polarity" and traced it to the capsule/FET gate? -- No virus found in this outgoing message. Checked by AVG...
[Richard Lee](#) 31 Dec, 2006

Re: Hypercardiod to cardiod

...capsule so the exact method is case dependent. The simplest capsules to modify I've seen are the TSB165s as used by Mr Helmke for his **Alice** Mike. If you look at the pic for this on Mark Strongs website, you see there are 6 holes on the back of the capsule. Blocking some...

[Richard Lee](#) 31 Dec, 2006

Fet replacement

hi, following my attempt to build an **Alice**-like microphone, it seems hard to find Fet (2N4116A, 2N4338) here in Italy, so I would like if there is some replacement I can look for. best regards, roberto

[yrgul](#) 27 Dec, 2006

Re: [micbuilders] Large/small diaphragm elements

...request the tsb255a \$12.00 - great sound. 26mm (1 inch) look at zapnsparks photos to see what it looks like, also the 'stefan's **alice** alike' folder has pictures. --- dmyers549 wrote: > Where can I get parts? I want to build a large > diaphragm condenser. > Mic...

[Stefan Avalos](#) 26 Dec, 2006

A new recording with my alice-alikes

Here is a recording I made last night with my **Alice**-Alikes. The mics were in an xy position for both instruments. About 18 inches from the guitar, and about six feet away, and six...

[st18901](#) 24 Dec, 2006

Re: [micbuilders] Large diaphragm: low end models

Transsound capsules are a huge part of the DIY mic community's capsule arsenal. They're chinese and they sound really good. The **Alice** microphone, and a lot of Dayvel's mics are based around those capsules. Recently, a large diaphragm capsule became easily available...

[Stefan Avalos](#) 15 Dec, 2006

Re: [micbuilders] Call for Recordings of Place-Chicago Gallery Show

Take **Alice** and her twin sister out for some fresh air. You never know,.. I think Mike is in the Chicago area too,.. Rob D. At 6:47 PM -0600...
[Rob Danielson](#) 06 Dec, 2006

different circuits - how do they sound?

...microphone? Obviously, there are crappy circuits, unbalanced, etc., however, as compared to a solid, good circuit like the Schoeps (**Alice**) based circuit many here jump from, what sonic differences are there with other solid state circuits? Not including things like...
[st18901](#) 05 Dec, 2006

Re: [micbuilders] Re: Alice mic and microtrack

I built a "Green Pre" It's a pretty well known DIY Pre. Pcb boards, etc. are readily available. It's a pre based on the Amek Mozart Pre. Very clean, no coloration. 66DB of very quiet gain! I built two channels for a total cost, including chassis, psu, knobs, etc. for \$300.00 --- Jay Moodley wrote: >
[Stefan Avalos](#) 28 Nov, 2006

Re: Alice mic and microtrack

What preamp did you build? ----- Now you can have a huge leap forward in email: get the new Yahoo! Mail. [Non-text portions of this message have been removed]
[Jay Moodley](#) 28 Nov, 2006

Re: Alice mic and microtrack

ARGGGG! Welcome to my RANT! I hate to tell you, but no, it won't work with two **Alice** Mics - especially with two microphones. I don't know about the microtrack, though in just checking...SHOOT SOMEONE!!!) that specified "phantom power" but not 48V. Guess what? Long and short - one
[st18901](#) 27 Nov, 2006

Alice mic and microtrack

Hello, I'm new to this list, and I have a question: I would like to build two **Alice** microphones to use with my m-audio microtrack. I read that the phantom power available is about 30V, and I don't know if it is enough or if I have to use a battery, as in <http://mp3forkidz.com/mic/tsb-165a.html>
[yrgul](#) 27 Nov, 2006

Re: TSB-165A

...Panasonic capsules. But by > > doing it yourself on the TSB-165A you can get much lower noise. > > > <http://www.scotthelmke.com/alice-mic.html> > > > I don't have a schematic of a battery box circuit by itself, but you > > can just use the **Alice** (also known as...

[christo_sz](#) 18 Nov, 2006

Re: [micbuilders] Newbie micbuilder excitement!

...I just want to say thanks for all the incredible > information from this > group. I'm in the process of building a set of > **Alice**-alike mics with > the TSB165A capsules with a lot of help from Scott > and Stefan's > websites. It's my first ever electronics...

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[venture175](#) 15 Nov, 2006

Re: TSB-165A

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[christo_sz](#) 12 Nov, 2006

Re: [micbuilders] TSB-165A

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[Scott Helmke](#) 11 Nov, 2006

Re: personnal presentation, project presentation and a bunch of questions

...why I subscribed to this list. > > After digging around for a while on the net, I found Scott Helmke site > and discovered his "**alice**" microphone. Well, I've been very impressed by > the sounding result, which achieved to convince me that an electret > capsule...

[krokavadet](#) 08 Nov, 2006

RE: [micbuilders] personnal presentation, project presentation and a bunch of questions

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[umashankar mantravadi](#) 07 Nov, 2006

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[Wurbel Eric](#) 07 Nov, 2006

Re: TSB-2555A - finished a side address mic - photos and sound files

...shoulders of giants. You all will recognize elements of > it from other diy'ers. Thanks to all. > > The pictures are under "stefan's **Alice**-alike" folder. > > > For this mic, I used the circuit you put up last week, Zap (with a > couple of changes) > > After much anticipation...

[st18901](#) 26 Oct, 2006

TSB-2555A - finished a side address mic - photos and sound files

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Re: [micbuilders] Re: New file uploaded to micbuilders

...micbuilders@^\$1, "st18901" > wrote: > > > Very nice. > > > SO... my question - that's the Schoeps circuit > (pretty much) - the > > **Alice** circuit and the Dorsey circuit, et al are > very similar, > though > > some stuff has been eliminated and a few > components are...

[Stefan Avalos](#) 14 Oct, 2006

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[zapnspark](#) 14 Oct, 2006

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[st18901](#) 14 Oct, 2006

RE: [micbuilders] Just got word - TSB-2555A are now available from Mark Strong

...So the > minimum circuit would be a FET and a 1Gohm resistor, along > with the usual battery-box circuit. Or the usual > Shoeps/**Alice** circuit. > > - Scott [Non-text portions of this message have been removed]

Gene Dorcas 13 Oct, 2006

RE: [micbuilders] Just got word - TSB-2555A are now available from Mark Strong

...So the > minimum circuit would be a FET and a 1Gohm resistor, along > with the usual battery-box circuit. Or the usual > Schoeps/**Alice** circuit. > > - Scott

bblack 13 Oct, 2006

RE: [micbuilders] Just got word - TSB-2555A are now available from Mark Strong

...since all the impedance, operating voltage and current specs are the same, one should be able to "interchange" it with the Schoeps-**Alice** tsb165a circuit. --- scott@^\$1 wrote: > > The specs indicate its an element only and will at > least need a > > high-impedance...

Stefan Avalos 13 Oct, 2006

RE: [micbuilders] Just got word - TSB-2555A are now available from Mark Strong

> The specs indicate its an element only and will at least need a > high-impedance FET buffer/impedance converter > > > >
http://www.transsound.com/dzxwx_3/TSB-2555A.htm Oops, right you are - it still needs a FET. So the minimum circuit would be a FET and a 1Gohm
scott@scotthelmke.com 13 Oct, 2006

Re: [micbuilders] Re: I built some new microphones - and some sound clips

...are done in my office - under less than ideal conditions. However, you will be able to hear the characteristics of the Ttsb165a **Alice**-Alike and my omnis. The clips are: Violin - recorded with mics about 6 inches apart from each other in slight xy positioning, aproximately...

Stefan Avalos 10 Oct, 2006

I built some new microphones

I just built a pair of omnis based on the Schoeps (**alice**) circuit. After trying a bunch of different capsules, I decided upon Projects Unlimited BOM-6538

capsules...them. They're dirt cheap. For strings (solo violin specifically) I think I prefer these omnis to the **Alice**-Alike cardioids. For mic'ing of a [st18901](#) 07 Oct, 2006

Re: Correct Quiescent point for FET

...pull the 1G resistor from a > > normal FET mike and it will still work after a fashion. IIRC Scott > > Helmke tried this on an **Alice** and said it took 5 min to power up > > but seemed OK. > > Wasn't me... I think it was dayVel who tried it. > > -Scott > I don't...
[dayVel](#) 29 Sep, 2006

RE: [micbuilders] Re: good mic preamp ICs & Listening Tests

...here is the circuit i had been promising. the first half is based on >wireless world design and the second part is from an **alice** mixer design. >the input is connected across a one k resistor; i have successfully used an >input transformer in place of that...
[umashankar mantravadi](#) 28 Sep, 2006

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[Richard Lee](#) 28 Sep, 2006

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[usermo232000](#) 21 Sep, 2006

Re: [micbuilders] Correct Quiescent point for FET

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[Scott Helmke](#) 21 Sep, 2006

Correct Quiescent point for FET

...you could pull the 1G resistor from a normal FET mike and it will still work after a fashion. IIRC Scott Helmke tried this on an **Alice** and said it took 5 min to power up but seemed OK. Anyone investigated the implications of this? It would remove a large, expensive...

[Richard Lee](#) 21 Sep, 2006

RE: [micbuilders] Re: good mic preamp ICs & Listening Tests

...mic preamp). you get the advantages of both inverting and non-inverting this way, and i have used this as the input stage of the **alice** preamp for gain control. umashankar >From: "Eric Benjamin" >Reply-To: micbuilders@^\$1 >To: micbuilders@^\$2 >Subject: [micbuilders...

[umashankar mantravadi](#) 20 Sep, 2006

Re: MKH 30 capsules

...anyone put 48V via 10M on a MKH30 capsule to see if it collapses? If its OK with 24V, using a simplified Scheeps circuit like the **Alice** with some polarizing voltage may not give MKH30 noise but still be a lot better than many commercial mikes. -- No virus found in...

[Richard Lee](#) 06 Sep, 2006

Re: [micbuilders] Alice mic, low gain?

...that one before! Oh well, circuit sounds great. Thanks a lot. Jason On 8/18/06 9:22 AM, "Scott Helmke" wrote: > Jason, > > The **Alice** has a very hot output - likely something's wrong. I'd start with > measuring the DC voltages inside the mic - 12v in the power...

[Jason May](#) 24 Aug, 2006

Re: [micbuilders] Alice mic, low gain?

...mistake Thanks for the info. Though. The mic sounds great now! Jason
On 8/18/06 9:22 AM, "Scott Helmke" wrote: > Jason, > > The **Alice** has a
very hot output - likely something's wrong. I'd start with > measuring the
DC voltages inside the mic - 12v in the power...

Jason May 21 Aug, 2006

**RE: [micbuilders] Proposal - preamlifacador por rebello
recordista....**

...feedback network give reliable and repeatable control in 6db steps over
gain from unity to +70db 7) obviously 48V Phantom power so **Alice** or
(Schoeps style) modded Behringer C2's operate under near ideal conditions
Quality is obviously determined by the used transformer...

Alcor Electronics 19 Aug, 2006

**RE: [micbuilders] Proposal - preamlifacador por rebello
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Quality is obviously determined by the used transformer...

Thorsten Loesch 19 Aug, 2006

Re: [micbuilders] Alice mic, low gain?

Jason, The **Alice** has a very hot output - likely something's wrong. I'd start
with measuring the DC voltages inside the mic - 12v in the power
section...On Thursday 17 August 2006 22:12, Jason May wrote: > Hey all, I
finally got around to putting together a mic based on scott's > "**alice**"

Scott Helmke 18 Aug, 2006

Alice mic, low gain?

Hey all, I finally got around to putting together a mic based on scott's
"**alice**" mic.... It sounds fine, except I have low gain. It seems to take about
55-60db of gain on my preamp to get anything usable.... What kind of gain
can I expect from this circuit? Any suggestions for places to look for gain

Jason May 18 Aug, 2006

Re: [micbuilders] 1 inch copper XLR mounting

...almost perfectly. -Scott On Tuesday 08 August 2006 14:13, lucidgenius wrote: > Hey Guys, > > Have a question. I'm building the **alice** microphone and having > problems making the back of the mic (xlr) jack look clean. Any > suggestions? > > Thanks. > > Caleb...

Scott Helmke 09 Aug, 2006

1 inch copper XLR mounting

Hey Guys, Have a question. I'm building the **alice** microphone and having problems making the back of the mic (xlr) jack look clean. Any suggestions? Thanks. Caleb

lucidgenius 08 Aug, 2006

Re: [micbuilders] Sterlig Audio ST31

Hey, it looks like an **ALICE!** --- Gsteinba52@^\$1 wrote: > Says they are available at 'Guitar Center' - go > check out the one in S.F. > and give us the full story! > > Jerry > > > [Non-text portions of this message have been > removed] > > _____

Stefan Avalos 08 Aug, 2006

Re: [micbuilders] XLR in Copper Tube?

...gives the sheilding necessary, but It'd be worth trying anyway. IIRC, there is a particular style of XLR that was specified in the **Alice** documentation, but I have not read it in a while, and I could be mistaken, but I think it was the B3M connector. A good Switchcraft...

bblack 07 Aug, 2006

750 value - Re: DIY mics using Panasonic capsules

...the Linkwitz mod would do. > > For most FETs, this gives best noise performance too. > > I would seriously consider modding the **Alice** / Schoeps type circuits to do something similar. > > The only disadvantage is that the case of the capsule has to be insulated...

Jim Mastracco 31 Jul, 2006

Piezo capsules

...1 AES paper by Mitsubishi (I think) Piezos are High Impedance, capacitive sources like condensor mikes but less critical. The **Alice** / Schoeps circuit is deluxe and Brad's <http://www.avensonaudio.com/tech/CIRCUIT1.pdf> for something simpler --
[Richard Lee](#) 30 Jul, 2006

various circuit for condenser mics - what differences?

I have currently built several mics using the "**Alice**" circuit and I see how it is very similar to some other circuits out there. However, What about circuits that have a lot of oher things going on? What is the difference between mic circuits? If the circuit amplifies well and is quiet, what other
[st18901](#) 29 Jul, 2006

Re: [micbuilders] Noob questions about DIY mics using Panasonic capsules

...devices, I recently purchased a > FastTrack Pro and have found that it works quite well for > my phantom-powered WM-61a mic and my **Alice** mic, as well as > for my trusty ole SM57. Also, see Scott's page for the > **Alice**: <http://scotthelmke.com/alice-mic.html> It uses...
[Joseph Diliberto](#) 28 Jul, 2006

RE: [micbuilders] Re: DIY mics using Panasonic capsules

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[Brad Avenson](#) 27 Jul, 2006

Re: [micbuilders] Re: DIY mics using Panasonic capsules

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[Alcor Electronics](#) 27 Jul, 2006

Re: DIY mics using Panasonic capsules

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[qw1209po](#) 27 Jul, 2006

DIY mics using Panasonic capsules

...is what the Linkwitz mod would do. For most FETs, this gives best noise performance too. I would seriously consider modding the **Alice** / Schoeps type circuits to do something similar. The only disadvantage is that the case of the capsule has to be insulated from...

[Richard Lee](#) 27 Jul, 2006

Re: [micbuilders] Noob questions about DIY mics using Panasonic capsules

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[Joseph Diliberto](#) 25 Jul, 2006

Re: [micbuilders] Noob questions about DIY mics using Panasonic capsules

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[Alcor Electronics](#) 24 Jul, 2006

Re: [micbuilders] Noob questions about DIY mics using Panasonic capsules

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[bblack](#) 24 Jul, 2006

Re: [micbuilders] Noob questions about DIY mics using Panasonic capsules

...devices, I recently purchased a FastTrack Pro and have found that it works quite well for my phantom-powered WM-61a mic and my **Alice** mic, as well as for my trusty ole SM57. Also, see Scott's page for the **Alice**: <http://scotthelmke.com/alice-mic.html> It uses a Transsound...

Joseph Diliberto 24 Jul, 2006

was - an off topic question about preamps - now GREEN PRE

...PRE. Guys, (I'm going to state the obvious to you pro's) this is such a great thing to do for the mics. I'm amazed by how good my **Alice**-alikes sound through this. Harshness that I was blaming on the mic has gone away. Also, dynamic range is better. SMOOOTH and natural...

st18901 22 Jul, 2006

Re: [micbuilders] Noob questions about DIY mics using Panasonic capsules

...devices, I recently purchased a FastTrack Pro and have found that it works quite well for my phantom-powered WM-61a mic and my **Alice** mic, as well as for my trusty ole SM57. Also, see Scott's page for the **Alice**: <http://scotthelmke.com/alice-mic.html> It uses a Transsound...

Darryl Millette 20 Jul, 2006

Re: [micbuilders] Eric and Ralph [was Re: dummy head and modified alice.]

...Benjamin" To: Sent: Thursday, July 13, 2006 2:12 PM Subject: Re: [micbuilders] Eric and Ralph [was Re: dummy head and modified **alice**.] > Brian Dasilva wrote: > > Bowling Ball?? > > Absolutely! It doesn't get much more spherical or > much more rigid than that...

Matthew Shonk 18 Jul, 2006

Re: [micbuilders] Eric and Ralph [was Re: dummy head and modified alice.]

Eric Benjamin wrote: > Brian Dasilva wrote: > >> Bowling Ball?? I've got two used (and drilled) bowling balls set aside for my next dummy-head mic project. Just having trouble getting the proverbial round toit. > ... I will say

[Mike Feldman](#) 14 Jul, 2006

Re: [micbuilders] Eric and Ralph [was Re: dummy head and modified alice.]

Do you think people with big heads have better stereo separation than people with small heads? :) > that you can make the sphere be whatever size you > like, within limits, by inflating or deflating the > ball prior to adding the plaster. >

[Stefan Avalos](#) 14 Jul, 2006

Re: [micbuilders] Eric and Ralph [was Re: dummy head and modified alice.]

Brian Dasilva wrote: > Bowling Ball?? Absolutely! It doesn't get much more spherical or much more rigid than that. The experimental work for the paper by Duda and Martens was done using an un-drilled bowling ball. I will say that it makes the microphone a bit heavier than it probably needs to be. My

[Eric Benjamin](#) 13 Jul, 2006

Re: [micbuilders] Eric and Ralph [was Re: dummy head and modified alice.]

...micbuilders@^\$1 Sent: Thursday, July 13, 2006 1:33 PM Subject: Re: [micbuilders] Eric and Ralph [was Re: dummy head and modified **alice.**] Matt, You might also want to search JASA for info on energy density sensors. A group headed by Scott Sommerfeldt out at BYU was...

[Brian Dasilva](#) 13 Jul, 2006

Re: [micbuilders] Eric and Ralph [was Re: dummy head and modified alice.]

Matt, You might also want to search JASA for info on energy density sensors. A group headed by Scott Sommerfeldt out at BYU was working on mounting phase matched mics in a small sphere for measuring energy density. I know that a few students of his (back when he was at Penn State)

[Ralph Muehleisen](#) 13 Jul, 2006

Re: [micbuilders] dummy head and modified alice.

bblack wrote: > ... Unfortunately, my radio station is being sold, > and my

job of 16 years is going away, along with my > availability to use this microphone! <http://www.ktpb.org/stationmanager.asp> Bryan, it hurts to read about this. I feel for you and your coworkers and for your audience. Best of [Mike Feldman](#) 13 Jul, 2006

Re: [micbuilders] dummy head and modified alice.

Stefan Avalos wrote: > When a job vanishes due to a place being sold > (changing owners) it is not the only thing that could > vanish... Oh, you must mean the offsite archive storage of those 500 recordings... those aren't an asset, they're a recurring storage expense. So are the new owners only [Mike Feldman](#) 13 Jul, 2006

Re: [micbuilders] dummy head and modified alice.

you know, When a job vanishes due to a place being sold (changing owners) it is not the only thing that could vanish... --- bblack wrote: > Howdy! > I don't know of any specific references or papers, > but you > might look up the name Gunter Theile. This is the > fella > that (as I [Stefan Avalos](#) 13 Jul, 2006

Re: [micbuilders] dummy head and modified alice.

Howdy! I don't know of any specific references or papers, but you might look up the name Gunter Theile. This is the fella that (as I understand it) came up with the idea. I have never really studied the physics of why it works, I just know that it does! :) My current employer bought (according to [bblack](#) 13 Jul, 2006

Eric and Ralph [was Re: dummy head and modified alice.]

Thanks for the references. Looks like I have some summer reading. I forget about JASA and hadn't found much in JAES. Matt [Matthew Shonk](#) 12 Jul, 2006

Re: [micbuilders] dummy head and modified alice.

Check out this paper and references therein The Journal of the Acoustical Society of America -- October 2004 -- Volume 116, Issue 4, pp. 2149-2157Plane-wave decomposition of the sound field on a sphere by spherical convolution Boaz Rafaely * Department of Electrical and Computer [Ralph Muehleisen](#) 11 Jul, 2006

Re: [micbuilders] dummy head and modified alice.

--- Matthew Shonk wrote: > Does anyone know of published material that > details the effects of a spherical boundary? My favorite reference for this is "Range dependence of the response of a spherical head model", by Richard Duda and William Martens. You can find the paper here:

[Eric Benjamin](#) 11 Jul, 2006

Re: [micbuilders] dummy head and modified alice.

Does anyone know of published material that details the effects of a spherical boundary? I wonder how different the effect is when the mic is in the boundary as opposed to outside of and on the boundary. I've been working under the assumption that any change in the frequency response

[Matthew Shonk](#) 10 Jul, 2006

RE: dummy head and modified alice

Eric, if you've got some measurements of before & after, I'm sure the group would appreciate having this in the Files section. Richard Eric wrote : I see from the information on your web site that you modified the TSB-165As to be omnidirectional, which obviously was necessary. When I have done this

[Richard Lee](#) 09 Jul, 2006

Re: [micbuilders] dummy head and modified alice.

Luca, Thanks for posting the photos of your "dummy head" microphone. I would be tempted to call it a sphere microphone instead of a dummy head, simply because it doesn't have pinnae, but then I'm not quite sure where to draw the line between sphere mics and dummy head mics. Your design

[Eric Benjamin](#) 07 Jul, 2006

[micbuilders] Re: neumann U77 repair

...understand a lot of cool tips about measure and scan a mic schematic. :-)
i hope i will make some audio clip with A-B test neumann-vs-**alice**... :-) i know they are so different mics but...maybe it will be useful to someone..
thank you again!! :-) On 19 Apr 2006 at 15...

[luCa zenari](#) 07 Jul, 2006

dummy head and modified alice.

...two capsules on the two sides of a wood block.. i like wood..and i think it's useful to work with.. i made a new version of he "**alice**" mic...i called the first "LCe", now i makes the LCeD. it has got a suspension in he middle of the body and has transound TSB 165...

[luCa zenari](#) 07 Jul, 2006

Re: me too --- my alice microphones

I may as well chime in here, too. I just finished putting together a mic based on Scott's **Alice**, and am doing some preliminary testing. I've got a blog entry (with photos) up here: [http...Hi everyone, > > I have joined the club of people who have made microphones based on > the **Alice**. > > Thanks](http://www.djm042.com)

[djm042](#) 03 Jul, 2006

Re: [micbuilders] Re: are all fets the same? - 2N4416a - or phantom power...

...buddy, puts out 41 or so volts of phantom power per channel when one mic is used. Stick another in, and it drops to 31 volts. The **Alice** designed mics DON't work at this level. They get static'y, hissy. I didn't measure mA, only voltage, --- bblack wrote: > Just remember...

[Stefan Avalos](#) 14 Jun, 2006

Re: "bump, pop" sounds from my "alice" mic

...2006 04:58, st18901 wrote: > > I'm getting some strange bump, pop type sounds from one of my mics - > > which were built like the "**alice**" mic. > > It's an infrequent, highly intermittent sound, almost as if the mic > > were being hit with a sound wave that would overdrive...

[st18901](#) 11 Jun, 2006

Re: [micbuilders] "bump, pop" sounds from my "alice" mic

...2006 04:58, st18901 wrote: > I'm getting some strange bump, pop type sounds from one of my mics - > which were built like the "**alice**" mic. > It's an infrequent, highly intermittent sound, almost as if the mic > were being hit with a sound wave that would overdrive...

[Scott Helmke](#) 05 Jun, 2006

A Body for Alice--Electrochemical Etching?

Hello all, I've been lurking for a while and have finally found the free time (sort of) to take a shot at building Scott's **Alice** microphone. After dremel-ing my way through some copper pipe, I'm less than thrilled with the method and my results. Yes, my technique...

[de.jure](#) 05 Jun, 2006

"bump, pop" sounds from my "alice" mic

I'm getting some strange bump, pop type sounds from one of my mics - which were built like the "**alice**" mic. It's an infrequent, highly intermittent sound, almost as if the mic were being hit with a sound wave that would overdrive the capsule. The sound is similar to when you initially turn the

[st18901](#) 05 Jun, 2006

Re: [micbuilders] Re: : Looking for the Best Electret Mic design Schematics!!

...Transsound does a wide selection of capsules, including cardioid with snr > 62db. This is the most popular one and the one used in the **Alice** mic that Scott created (and many of us have imitated)

<http://jlielelectronics.com/transsound/electrets/tsb-165a.htm> It's very quiet...

[Stefan Avalos](#) 04 Jun, 2006

Re: [micbuilders] Re: : Looking for the Best Electret Mic design Schematics!!

...TSB-165 capsules - they don't have a built-in FET circuit, which eliminates the usual main source of noise in such capsules. The **Alice** circuit with the TSB-165 results in a very quiet mic. -Scott On Saturday 03 June 2006 21:21, chris wrote: > Hi have Bought elements...

[Scott Helmke](#) 04 Jun, 2006

Re: [micbuilders] Re: : Looking for the Best Electret Mic design Schematics!!

Bear in mind that "Signal to noise ratio" is not the same thing as "Noise level", which is what the **Alice** is listed as. The **Alice** is a *lot* quieter than a Panasonic capsule mic. You should also check out the "Linkwitz mod" for Panasonic...

Scott Helmke 03 Jun, 2006

Re: [micbuilders] Re: : Looking for the Best Electret Mic design Schematics!!

...know how it turns out.... Cheers krokavadet wrote: Hi Chris, You could take a look at this schematic <http://www.scotthelmke.com/alice-schematic.jpg> . Seems to be an elegant way. Capsule with a SNR of 58 dB are quite noisy. That corresponds to 36 dB in a room. The...

chris 02 Jun, 2006

Re: : Looking for the Best Electret Mic design Schematics!!

Hi Chris, You could take a look at this schematic <http://www.scotthelmke.com/alice-schematic.jpg> . Seems to be an elegant way. Capsule with a SNR of 58 dB are quite noisy. That corresponds to 36 dB in a room. The...

krokavadet 02 Jun, 2006

HF response of connectors

...many feet of mike cable to get that. And cheap cable has even more capacitance so will have even more HF rolloff. If you use the **Alice** circuit, the two emitter followers means the Output Resistance is about 25R and you will need 318 nF before you have -3dB at 20...

Richard Lee 27 May, 2006

Re: Alice mic

--- In micbuilders@^\$1, Oswaldo wrote: > > Thanks Scott: > Your explanations are very very useful. > So, It is not magic? > Oswaldo > The key to understanding the Schoeps-type circuit is that the two 6.81kOhm resistors in the phantom supply also function as the emitter resistors in the

dayVel 18 May, 2006

Re: [micbuilders] Alice mic

> Thanks Scott: > Your explanations are very very useful. > So, It is not magic? > Oswaldo Of course it isn't magic. It's just tiny little angels carrying musical notes around. ;)

scott@scotthelmke.com 16 May, 2006

Re: [micbuilders] Alice mic

Thanks Scott: Your explanations are very very useful. So, It is not magic?
Oswaldo
[Oswaldo](#) 16 May, 2006

Re: [micbuilders] Alice mic

...Monday 15 May 2006 23:52, tweedclassic1 wrote: > i was hoping some one could explain to me what the bi polar > transistors in the **Alice** phantom power circuit do? are they amplifying > or acting a switches? or better yet explain the whole circuit because > i don't...
[Scott Helmke](#) 16 May, 2006

Alice mic

i was hoping some one could explain to me what the bi polar transistors in the **Alice** phantom power circuit do? are they amplifying or acting a switches? or better yet explain the whole circuit because i don't really understand how it works? are the caps acting a filters? what is the zener
[tweedclassic1](#) 16 May, 2006

Re: [micbuilders] dc blocking capacitor - what value?

...the dangerous amount of knowledge I have(enough to get in trouble, not enough to get out of it). --- [scott@^\\$1](#) wrote: > > In the **Alice** mic, .47 is used for dc blocking. > With other schemes, I > > see values all over with 1uf being very common. > > > My question...
[Stefan Avalos](#) 08 May, 2006

Re: [micbuilders] dc blocking capacitor - what value?

> In the **Alice** mic, .47 is used for dc blocking. With other schemes, I > see values all over with 1uf being very common. > > My question...capacitors are already small & cheap, and higher values tend to be more linear to AC signals. I actually built one **Alice** mic with 10uF electrolytics to see how it
[scott@scotthelmke.com](#) 08 May, 2006

dc blocking capacitor - what value?

In the **Alice** mic, .47 is used for dc blocking. With other schemes, I see values all over with 1uf being very common. My question - at what point is

sound being affected by these caps? thanks

[st18901](#) 08 May, 2006

Re: [micbuilders] Re: question about schematic

...friends uses the tapeop omnis all the time when he does his church choir gigs because of the broad coverage. I have a pair of Scott's **Alice** mics (unidirectional) that I used at a jazz festival last summer. They did not have any windscreens so they would not be appropriate...

[Keith Luke](#) 05 May, 2006

Re: [micbuilders] Re: question about schematic

...different circumstances. The piano recordings all sound pretty good. Sorry if that question seemed a bit redundant or dumb. I've built "**Alice**-alikes" and am very, VERY pleased with them. Now, I'm trying to build two omnis of some sort. Hence all the questions. Hopefully...

[Stefan Avalos](#) 04 May, 2006

"soundfield" mic pics uploaded

...number of pics of my recently completed "soundfield" mic. It uses 4 tsb165a mic elements, and 4x something pretty close to the "**Alice**" circuit. I used a Rode NT1 case because I had no chance of making my own. The capsule holder took a bit of building to get it...

[Paul Doornbusch](#) 03 May, 2006

foam or protection for wind from -- the wind

I'm interested in protection from the wind when recording outdoors Thinking about building mini-rycotes or something for my **Alice**-Alikes. This interest came after, on a lark, sticking the mics in an XY position out of my office window during a mid day rainstorm...

[st18901](#) 02 May, 2006

Re: [micbuilders] Which foam for capsule? Brass mesh?

The foam balls do an OK job. An **Alice** (or other SDC without a vocal windscreen) ends up with about the same pop-protection as a regular vocal mic. -Scott On Tuesday...

[Scott Helmke](#) 02 May, 2006

Re: [micbuilders] Which foam for capsule? Brass mesh?

...the right thickness, is open-celled, and has a > fabric layer that is easily > peeled off. > > I also use a foam ball over the **Alice** for live > vocals - the WT600-12 from > Markertek. > > That McMaster-Carr number is the same stuff I use > for the **Alice**. But you...

[Stefan Avalos](#) 02 May, 2006

Re: [micbuilders] Which foam for capsule? Brass mesh?

...just about the right thickness, is open-celled, and has a fabric layer that is easily peeled off. I also use a foam ball over the **Alice** for live vocals - the WT600-12 from Markertek. That McMaster-Carr number is the same stuff I use for the **Alice**. But you could use...

[Scott Helmke](#) 02 May, 2006

Which foam for capsule? Brass mesh?

...m trying to figure this stuff out and I'm not doing a stellar job. Is there a particular type of foam used for mics such as the **Alice**? In this photo [http://scotthelmke.com/**alice**-mic-open-end.jpg] the brass screen is lined with it. Markertek.com sells windscreen...

[Dave B](#) 02 May, 2006

Re: [micbuilders] Re: the size of .47 ug cap on alice - smaller is better?

I actually woke up this morning and realized this. Funny how the mind does things while you're asleep. I was kinda hoping to point my goof out before the masters did. :) Darn it! You're good, and fast. The small size would have been nice. I think it all started from a typo a ways back. Back to the

[Stefan Avalos](#) 29 Apr, 2006

Re: .47 cap on Alice mic construction photos

...Avalos wrote: > > The 2nd one is on the underside, cause it's so big. > --
- Dave B wrote: > > > I'm looking at the schematic for the **Alice** and > > comparing it to the > > construction photos. I see two .47's on the schemo, > > but only one on > > the perf board (the...

[Dave B](#) 29 Apr, 2006

Re: [micbuilders] Re: the size of .47 ug cap on alice - smaller is better?

Take a close look at the value - the big one on the perfboard is "474", the little one below it is "473", aka 0.047uF instead of 0.47uF. -Scott On Saturday 26 April 2006 04:50, st18901 wrote: I've bought the link to the

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> > I've attached a pic. > > --- Scott Helmke wrote: > > Did you buy
[st18901](#) 29 Apr, 2006

Re: [micbuilders] the size of .47 ug cap on alice - smaller is better?

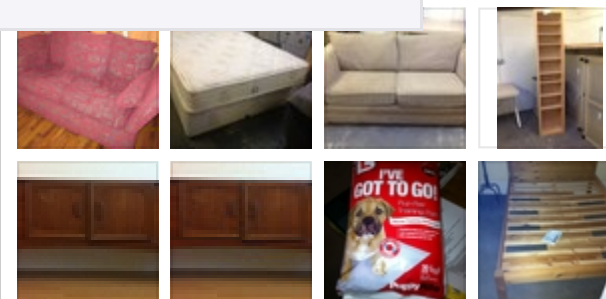
Nope. These are also Polyester. I've attached a pic. --- Scott Helmke wrote:
> Did you buy electrolytic or tantalum caps? The ones > I use are polyester
film > caps, much bulkier but better clarity. > > -Scott > > On Friday 28
April 2006 19:28, st18901 wrote: > > Scott (or whoever), > > > I built my
[Stefan Avalos](#) 29 Apr, 2006

Re: [micbuilders] the size of .47 ug cap on alice - smaller is better?

Did you buy electrolytic or tantalum caps? The ones I use are polyester film
caps, much bulkier but better clarity. -Scott On Friday 28 April 2006 19:28,
st18901 wrote: > Scott (or whoever), > > I built my first mics with the
mouser 474k (.47uf 50v Capacitor). The > big muthas. > > I just got the
[Scott Helmke](#) 29 Apr, 2006

the size of .47 ug cap on alice - smaller is better?

Scott (or whoever), I built my first mics with the mouser 474k (.47uf 50v
Capacitor). The big muthas. I just got the parts for more building and some
rebuilding. and among them, the new caps are the 473k .47 100V. They're
rated at 100v, but are nice and tiny. Am I missing something? Why are you



st18901 29 Apr, 2006

Re: [micbuilders] .47 cap on Alice mic construction photos

The 2nd one is on the underside, cause it's so big. --- Dave B wrote: > I'm looking at the schematic for the **Alice** and > comparing it to the > construction photos. I see two .47's on the schemo, > but only one on > the perf board (the big green...

Stefan Avalos 28 Apr, 2006

.47 cap on Alice mic construction photos

I'm looking at the schematic for the **Alice** and comparing it to the construction photos. I see two .47's on the schemo, but only one on the perf board (the big green one, correct?). Can someone tell me what I'm missing? Thanks, Dave

Dave B 28 Apr, 2006

Re: ahhh - output not right on my new "Alice" project mics - help

Scott, thanks for the suggestions. I measured everything from the output on and just as you wrote, it weighed in at about 32 volts at the 100k's. So, everything seems good at that point. Unfortunately I think that something somewhere got fried somehow - i think in the "high impedance" area. The

st18901 24 Apr, 2006

Re: [micbuilders] ahhh - output not right on my new "Alice" project mics - help

...100K resistors, etc. Both sides should have the same DC voltages. -Scott
On Sunday 23 April 2006 03:30, st18901 wrote: > So, the **Alice**-alikes that I built... > > I rebuilt one, to make the layout as elegant as possible (it was > originally the first one I built...

Scott Helmke 23 Apr, 2006

ahhh - output not right on my new "Alice" project mics - help

So, the **Alice**-alikes that I built... I rebuilt one, to make the layout as elegant as possible (it was originally the first one I built) Defluxed...

st18901 23 Apr, 2006



Re: [micbuilders] Re: me too --- my alice microphones

...impedance section of the mic") is that such an extremely high impedance is very sensitive to moisture and other contaminants. My **Alice** prototype got all distorted after just a little bit of vocal testing, just because of the moisture from my breath lowering the...

Scott Helmke 19 Apr, 2006

Re: me too --- my alice microphones

The mic body isn't open to the slots. The whole thing is pretty stuffed with fiberglass sound proofing. They sound great, actually. I also think that self noise that I was hearing could be attributed to the pre amps more than anything else. In terms of the 1g resistor touching anything? - What kind of

st18901 18 Apr, 2006

Re: me too --- my alice microphones

Stefan wrote >however the mic bodies were still imparting their own "tub'y" characteristics on the sound so I stuffed them front to back (except around the perfboard) with sound proofing fiberglass. I did this to just below the vents. I wrote >If you can't, you should reduce the cavity behind the slots

Richard Lee 18 Apr, 2006

Re: [micbuilders] me too --- my alice microphones

Thank you for the advice. I'm going to try it. Since I still have some tube material, I can do some a/b testing. --- Richard Lee wrote: > Dear st18901, > > I've just had a look at > >

<http://ph.groups.yahoo.com/group/micbuilders/photos/browse/c8ea> > >

Stefan Avalos 14 Apr, 2006

me too --- my alice microphones

Dear st18901, I've just had a look at <http://ph.groups.yahoo.com/group/micbuilders/photos/browse/c8ea> Very professional. However, you might want to have more slots if you can do so w/o weakening the tube. As far forward as possible. If you can't, you

Richard Lee 14 Apr, 2006

Re: [micbuilders] Re: me too --- my alice microphones

Thanks for the compliments. I'm loving the sonic quality of them. And I think they look pretty nifty too. :) These were built with the tsb 165. The pattern is quite Cardioid. I mentioned earlier that I thought there was a large frequency shift. I have to temper that statement with mentioning that it was a very
[Stefan Avalos](#) 12 Apr, 2006

Re: me too --- my alice microphones

>Nice job! How is the cardioid pattern on them? Anyone have 0 90 180 responses preferably (or polars) on their WM55 or TSB 160/165 mikes? Need to know measuring distance and how the measurement was made too. Richard L
[Richard Lee](#) 12 Apr, 2006

Re: [micbuilders] Re: me too --- my alice microphones

...frequency response would involve the small (compared to mine) ports on the sides of the mic. The **Alice** as I build it is very even in off-axis response. Noise floor... the only thing that's tripped...everyone, > > > > > I have joined the club of people who have made microphones based on > >
[Scott Helmke](#) 11 Apr, 2006

Re: me too --- my alice microphones

...2006 20:37, st18901 wrote: > > Hi everyone, > > > I have joined the club of people who have made microphones based on > > the **Alice**. > -- > ---- Scott Helmke ---- scott@^\$2.. ---- (734) 604-9340 ---- > And you'll visualize not taking any chances > But meet them...
[st18901](#) 10 Apr, 2006

Re: [micbuilders] me too --- my alice microphones

...09 April 2006 20:37, st18901 wrote: > > Hi everyone, > > I have joined the club of people who have made microphones based on > the **Alice**. -- ---- Scott Helmke ---- scott@^\$1 ---- (734) 604-9340 ---- And you'll visualize not taking any chances But meet them halfway...
[Scott Helmke](#) 10 Apr, 2006

me too --- my alice microphones

Hi everyone, I have joined the club of people who have made microphones

based on the **Alice**. Thanks Scott for your excellent website. You can check the pics out here.

[st18901](#) 10 Apr, 2006

RE: [micbuilders] microphone body - ala alice

...information. umashankar >From: "st18901" >Reply-To: micbuilders@^\$1
>To: micbuilders@^\$2 >Subject: [micbuilders] microphone body - ala **alice**
>Date: Tue, 04 Apr 2006 04:19:27 -0000 > >I've ordered all the parts to build an **Alice**-alike, and now as I wait, >I am wondering...

[umashankar mantravadi](#) 04 Apr, 2006

Re: [micbuilders] microphone body - ala alice

...less getting in the way the better. -Scott On Monday 03 April 2006 23:19, st18901 wrote: > I've ordered all the parts to build an **Alice**-alike, and now as I wait, > I am wondering -- > > would there be issues with using aluminum tubing rather than brass for > the...

[Scott Helmke](#) 04 Apr, 2006

Re: microphone body - ala alice

> In terms of the side vents, what accoustical physics are there > involved when cutting the side vents? > > Is there any source I can read up on this? The more side vents, the better up to a point. Just get as much space as possible without weakening the tube. Try to get the slots as far forward as

[Richard Lee](#) 04 Apr, 2006

microphone body - ala alice

I've ordered all the parts to build an **Alice**-alike, and now as I wait, I am wondering -- would there be issues with using aluminum tubing rather than brass for the body? In terms of the side...who answers these neophyte questions. I'm sure there will be more. Finally - the absolute newbie

[st18901](#) 04 Apr, 2006

Re: my alice "Ice"

...page for this group. Rich --- In micbuilders@^\$1, "luCa" wrote: > > hi all !
> > i just publish a web page with the images of my **alice** version; > i called it "LCE", it's a "stilo-pencil" version, no internal shockmount. > > there's

[Rich Peet](#) 04 Jan, 2006

my alice "Ice"

hi all ! i just publish a web page with the images of my **alice** version; i called it "LCE", it's a "stilo-pencil" version, no internal shockmount. there's also a "flex" model (that i like so much...) :-) i will translate the text in english as soon as possible.. www.fourtunas.it/diy

[luCa](#) 04 Jan, 2006

RE: [micbuilders] Two (stupid?) questions

...connector. You can find this in for >example Neumann KM84. But the second 1GOhm resistor isn't always used, >for example in Scott's **Alice** microphone. What is the actual purpose >with the second resistor and is it really necessary? > >The second question is about capacitors...

[umashankar mantravadi](#) 23 Dec, 2005

Two (stupid?) questions

...connector. You can find this in for example Neumann KM84. But the second 1GOhm resistor isn't always used, for example in Scott's **Alice** microphone. What is the actual purpose with the second resistor and is it really necessary? The second question is about capacitors...

[nikroswe](#) 22 Dec, 2005

Re: [micbuilders] Re: why 1g resistor?

...zener diode and the 10uF and 100uF filter caps. > > > > > --- In micbuilders@^\$1, "luCa" wrote: > > > > hi. > > i'm building an "**alice** matched pair", i just select transistors with > the same hfe measuring > > it with a cheap tester... > > i'm using bf256 (fet for...

[luCa](#) 15 Dec, 2005

Re: why 1g resistor?

...swapping out the zener diode and the 10uF and 100uF filter caps. --- In micbuilders@^\$1, "luCa" wrote: > > hi. > i'm building an "**alice** matched pair", i just select transistors with the same hfe measuring > it with a cheap tester... > i'm using bf256 (fet for the...

[dayVel](#) 11 Dec, 2005

Re: why 1g resistor?

...wrote: > > i tried to change the 1 giga resistor with another one that sounded good on another > **alice**... > ...no difference..so the problem is not the 1 giga res. i think. :-)> > i will work to...mean the capsules have a good 1G+ > > resistor built in? > > > Where is the circuit for your **Alice**?
[graemecogger](#) 10 Dec, 2005

Re: [micbuilders] why 1g resistor?

i tried to change the 1 giga resistor with another one that sounded good on another **alice**... ..no difference..so the problem is not the 1 giga res. i think. :-) i will work to find...this mean the capsules have a good 1G+ > resistor built in? > > Where is the circuit for your **Alice**? Anyone measured the
[luCa](#) 10 Dec, 2005

Re: [micbuilders] why 1g resistor?

...have to add them, and I put them right on the back of the capsule to minimize the super-high-impedance part of the circuit. The **Alice** documentation can be found here: <http://www.scotthelmke.com/alice-mic.html> includes schematic, parts list, etc. Somebody on the...
[Scott Helmke](#) 10 Dec, 2005

why 1g resistor?

...Scott, from what you have said, does this mean the capsules have a good 1G+ resistor built in? Where is the circuit for your **Alice**? Anyone measured the capacitance of the capsules? There is an article by Peter Baxandall in the UK magazine Wireless World (1970s...
[Richard Lee](#) 09 Dec, 2005

Re: [micbuilders] why 1g resistor?

...mix of components that doesn't sound good in the same circuit..)?.? thank you for helping me. :-) ps: scott..i'm not shure my "**alice**" has right noise floor... :-) could you record your **alice**'s noise (wth 60db gain) in an mp3 so i could try to understand if my...
[luCa](#) 08 Dec, 2005

Re: [micbuilders] why 1g resistor?

...occasional noisy mic too - haven't figured out a good way to test the components for it. I do test every FET with a breadboard **Alice** circuit, but that doesn't seem to find all of the noisy ones. -Scott On Wednesday 07 December 2005 15:04, luCa wrote: > hi. > i...
[Scott Helmke](#) 08 Dec, 2005

why 1g resistor?

hi. i'm building an "**alice** matched pair", i just select transistors with the same hfe measuring it with a cheap tester... i'm using bf256 (fet for the capsule...the self noise of the two mics. i use a mackie 1604vlzpro with the gain set to the max (60db). one mic make the same noise of an **alice** that i
[luCa](#) 07 Dec, 2005

Re: [micbuilders] Re: Alice built, great but need better SPL for drums...

...response, since the capsule itself is a capacitor. -Scott On Thursday 01 December 2005 13:56, qw1209po wrote: > Scott: > > The **Alice** isn't very good with loud signals - it overloads in its own > > circuit. You could do a proper mic pad by adding a small capacitor...
[Scott Helmke](#) 02 Dec, 2005

Re: Alice built, great but need better SPL for drums...

Scott: > The **Alice** isn't very good with loud signals - it overloads in its own > > circuit. You could do a proper mic pad by adding a small capacitor in > parallel to the capsule, too. Could you provide a practical value and type for this cap? And would it have any influence on the Fq response? Thanks!
[qw1209po](#) 01 Dec, 2005

Re: [micbuilders] Alice built, great but need better SPL for drums...

The **Alice** isn't very good with loud signals - it overloads in its own circuit. You could do a proper mic pad by adding a small capacitor in parallel to the capsule, too. The Linkwitz mod doesn't apply to the **Alice** - the FET (external) is already connected in the best way. Or you could get some
[Scott Helmke](#) 30 Nov, 2005

Alice built, great but need better SPL for drums...

I put my Alices together a few weeks ago (thanks Scott) and what a truly great mic it is for light to medium volume. It is a superb vocal mic, strangely to me. It almost sounds like a really expensive tube mic to which it was compared. It worked well on distant sources (and OH drums) but it has no

[terradrums](#) 30 Nov, 2005

Re: [micbuilders] Alice circuit:: allowable distance between capsule and circuitry.

On Monday 07 November 2005 10:24, qw1209po wrote: > I'm trying to come up with a stealth recording solution using the > **Alice** circuitry. So far, my projects have had the electronics start > within an inch of the capsule but I was wondering how far CAN the...

[Scott Helmke](#) 07 Nov, 2005

Alice circuit:: allowable distance between capsule and circuitry.

I'm trying to come up with a stealth recording solution using the **Alice** circuitry. So far, my projects have had the electronics start within an inch of the capsule but I was wondering how far CAN the...

[qw1209po](#) 07 Nov, 2005

Re: [micbuilders] Alice mic questions...

On Thursday 03 November 2005 14:31, terradrums wrote: > I'm assembling the **Alice** mic and I noticed after ordering my parts that > the parts list left off a 2N4416 something-or-other shown on the > schematic...

[Scott Helmke](#) 03 Nov, 2005

Alice mic questions...

I'm assembling the **Alice** mic and I noticed after ordering my parts that the parts list left off a 2N4416 something-or-other shown on the schematic. Yes...

[terradrums](#) 03 Nov, 2005

RE: [micbuilders] Re: Nakamichi CM-300 with built-in

amplification

...impedance transformation. you can use any of >the > > two transistor circuits which take phantom power to the fet circuit > > instead. (**alice** is one, but there are many designs out there) the >real > > advantage is the simplicity, and almost any pair of transistors >will...

[umashankar mantravadi](#) 21 Sep, 2005

Re: Nakamichi CM-300 with built-in amplification

...impedance transformation. you can use any of the > two transistor circuits which take phantom power to the fet circuit > instead. (**alice** is one, but there are many designs out there) the real > advantage is the simplicity, and almost any pair of transistors will...

[krokavadet](#) 21 Sep, 2005

Re: Nakamichi CM-300 with built-in amplification

...impedance transformation. you can use any of the two transistor circuits which take phantom power to the fet circuit instead. (**alice** is one, but there are many designs out there) the real advantage is the simplicity, and almost any pair of transistors will work...

[umashankar](#) 21 Sep, 2005

Re: [micbuilders] "Alice" mic with different capacitors

Finally I got back to this project. Not that busy, just lazy. Regular **Alice** vs. **Alice** w/ electrolytic caps: <http://www.scotthelmke.com/Alice-electrolytic.mp3> (10uF/35v electrolytic in place of the usual...electrolytic-plus-film.mp3 (10uF/35v electrolytic, 47nF/50v polyester film) Both clips
[Scott Helmke](#) 19 Sep, 2005

RE: [micbuilders] Re: "Alice" mic with different capacitors

...mailto:micbuilders@^\$2]On Behalf Of Robert Sent: Wednesday, August 17, 2005 10:08 AM To: micbuilders@^\$3 Subject: [micbuilders] Re: "**Alice**" mic with different capacitors --- In micbuilders@^\$4, "Pete Burrows" wrote:
> Why would any DIY guy still want to make passive...

[Pete Burrows](#) 17 Aug, 2005

Re: "Alice" mic with different capacitors

--- In micbuilders@^\$1, "Pete Burrows" wrote: > Why would any DIY guy still want to make passive crossovers? > Most good reference monitors are active these days it just makes more > sense. I won't argue that. However, most DIY speakers utilize passive crossovers. (Mine don't.) I understand
[Robert](#) 17 Aug, 2005

RE: [micbuilders] Re: "Alice" mic with different capacitors

...micbuilders@^\$2]On Behalf Of Mike Feldman Sent: Tuesday, August 16, 2005 10:05 PM To: micbuilders@^\$3 Subject: Re: [micbuilders] Re: "Alice" mic with different capacitors Robert wrote: > The metalized versions of each are apparently inferior to the > non-metalized ones...
[Pete Burrows](#) 17 Aug, 2005

Re: [micbuilders] Re: "Alice" mic with different capacitors

Robert wrote: > The metalized versions of each are apparently inferior to the > non-metalized ones, but still better than non-film caps... Where non-metalized means film & foil construction, I presume. And the kind where the conductors are long-edge-bonded as opposed to just at the end of the roll
[Mike Feldman](#) 17 Aug, 2005

Re: "Alice" mic with different capacitors

I found some more relevant information at these sites too:
<http://members.aol.com/sbench102/caps.html>
<http://ldsg.snippets.org/appdx-ec.php3> Aside from paper/oil caps (esoteric), it appears that the desirability for audio is about as follows: 1.
[Robert](#) 17 Aug, 2005

Re: "Alice" mic with different capacitors

I was a hold out using tantalums thinking they got better recently. I switched the the polyester and did notice an improvement. I have corrected my ways. Rich --- In micbuilders@^\$1, Scott Helmke wrote: > On Tuesday 16 August 2005 03:01, Robert wrote: > > Choosing capacitors is the fly in
[Rich Peet](#) 16 Aug, 2005

Re: [micbuilders] Re: "Alice" mic with different capacitors

Hi Scott, Scott Helmke wrote: > Somewhere around there's a PDF of a great article (from the 70's or > 80's, but still relevant) about the different types

and how they > handle audio. You probably mean
http://home.comcast.net/~wjungieeee/wsb/Picking_Capacitors_1.pdf and
[Indrek Rebane](#) 16 Aug, 2005

Re: [micbuilders] Re: "Alice" mic with different capacitors

On Tuesday 16 August 2005 03:01, Robert wrote: > Choosing capacitors is the fly in the ointment for me. It's real easy > to specify "2.2uF", but it's a totally different thing trying to > choose one. In general, the smaller the package, the less linear the cap is for audio and other AC applications.

[Scott Helmke](#) 16 Aug, 2005

Re: "Alice" mic with different capacitors

--- In micbuilders@^\$1, Mike Feldman wrote: > Robert wrote: > > ... For DC blocking caps, wouldn't tantalum ones work well enough ... > > Well, rather than thinking about this use of caps as DC-blocking, > you should think of them as AC-coupling caps; they let the signal > through while

[Robert](#) 16 Aug, 2005

Re: [micbuilders] "Alice" mic with different capacitors

On Monday 15 August 2005 18:23, Mike Feldman wrote: > It's my understanding that a properly biased electrolytic doesn't sound > too bad, and I'm sure (or not so sure) that a mixer would fail in the > marketplace if it didn't have proper bias on input caps. > > But use hobbists are perfectly

[Scott Helmke](#) 16 Aug, 2005

Re: [micbuilders] "Alice" mic with different capacitors

Scott Helmke wrote: > If there is a particular sound or artifact from electrolytics, it would still > be good to limit the number of such capacitors in the signal path. Also, > since I was comparing two otherwise identical mics through the same mixer, > any differences between the mics should

[Mike Feldman](#) 15 Aug, 2005

Re: [micbuilders] "Alice" mic with different capacitors

Electrolytics are small and cheap even with the larger values, and the larger values are said to be more linear for audio than smaller. I figure a fairer test is to use ideal values, rather than identical but non-ideal values. -Scott On Monday 15 August 2005 14:54, Pete Burrows wrote: > most mixers will

[Scott Helmke](#) 15 Aug, 2005

RE: [micbuilders] "Alice" mic with different capacitors

...micbuilders@^\$2]On Behalf Of Scott Helmke Sent: Monday, August 15, 2005 11:18 AM To: micbuilders@^\$3 Subject: Re: [micbuilders] "**Alice**" mic with different capacitors That's a good question. I'm using a Spirit Folio "RacPac" mixer, an older Soundcraft rack mount...

[Pete Burrows](#) 15 Aug, 2005

Re: [micbuilders] "Alice" mic with different capacitors

That's a good question. I'm using a Spirit Folio "RacPac" mixer, an older Soundcraft rack mount dealy. I haven't had it open in a while, but it probaby does use electrolytics. That being said... If there is a particular sound or artifact from electrolytics, it would still be good to limit the number

[Scott Helmke](#) 15 Aug, 2005

Re: [micbuilders] "Alice" mic with different capacitors

Scott Helmke wrote: > Finally acting on a long-simmering desire to test out my usual mic with > different DC blocking caps, I built one with electrolytic caps (10uF/35v) in > place of the usual .47uF film caps. As long as you're experimenting and testing it might be interesting to hear if you can hear/see

[Mike Feldman](#) 15 Aug, 2005

Re: "Alice" mic with different capacitors

...micbuilders@^\$3]On Behalf Of Scott Helmke > Sent: Monday, August 15, 2005 9:50 AM > To: micbuilders@^\$4 > Subject: [micbuilders] "**Alice**" mic with different capacitors > > > Finally acting on a long-simmering desire to test out my usual mic with > different DC blocking...

[Robert](#) 15 Aug, 2005

RE: [micbuilders] "Alice" mic with different capacitors

...mailto:micbuilders@^\$2]On Behalf Of Scott Helmke Sent: Monday, August 15, 2005 9:50 AM To: micbuilders@^\$3 Subject: [micbuilders] "**Alice**" mic with different capacitors Finally acting on a long-simmering desire to test out my usual mic with different DC blocking caps...

[Pete Burrows](#) 15 Aug, 2005

"Alice" mic with different capacitors

...honky" side? Hard to say with limited testing. In a way it might be better, taming some of the high frequency presence that the **Alice** has in abundance. Or it might be a bit dulled... I'll keep the mic this way for a while and try it out on some things. But the...

[Scott Helmke](#) 15 Aug, 2005

Re: [micbuilders] long tail pair figure 8 and cap test

...be an issue - I'm worried about clarity, sound quality, "smear", whatever you might call it. One thing I really like about the **Alice** is that the sound is exceptionally clear. I'd been building mics with the Panasonic capsules and getting good sound, using film...

[Scott Helmke](#) 14 Aug, 2005

Re: [micbuilders] Mic case material and mu-metal (was Re: Stereo microphone copper mesh)

...out of copper and getting >> good-enough shielding from that. > > I'm new here, and I planned on building a version of Scott's **Alice** mic > after practicing on some less demanding designs. I assume I'll use > copper pipe as Scott did, but I'm curious what materials...

[Mike Darling](#) 07 Aug, 2005

Mic case material and mu-metal (was Re: Stereo microphone copper mesh)

...building mics out of copper and getting >good-enough shielding from that. I'm new here, and I planned on building a version of Scott's **Alice** mic after practicing on some less demanding designs. I assume I'll use copper pipe as Scott did, but I'm curious what materials...

[Dave B](#) 07 Aug, 2005

RE: [micbuilders] "Earl" mic prototype aka "Big Bluegrass Mic"

...Mic". >It's a big showy body containing a stereo array (coincident capsules at >about 100 degrees splay) of what are essentially **Alice** (TSB-165A capsule) >mics. The capsule is modified by cutting away the perforated faceplate for >less of that brightness. I also...

[umashankar mantravadi](#) 27 Jul, 2005

"Earl" mic prototype aka "Big Bluegrass Mic"

...Mic". It's a big showy body containing a stereo array (coincident capsules at about 100 degrees splay) of what are essentially **Alice** (TSB-165A capsule) mics. The capsule is modified by cutting away the perforated faceplate for less of that brightness. I also tried...

[Scott Helmke](#) 26 Jul, 2005

Re: [micbuilders] Stereo microphone copper mesh

...on the shielding. Plenty good enough, anyway. Well, I'm only doing SDC mics so far, which certainly could be a difference. My "**Alice**" mics already have the cut-out end of the pipe around the capsule, so even without the brass mesh the hum is reduced quite a bit...

[Scott Helmke](#) 25 Jul, 2005

Re: [micbuilders] Re: Coincident pair with TSB-165A

...notice that he's feeding the source of each WM-55A, one to the > + and one for the - of the INA217 preamp. > > What if I took the **Alice** circuit and disconnected the top 0.47 mF cap > and connected it to another input section, replicating the > capsule/1gig/FET/2...

[Scott Helmke](#) 20 Jul, 2005

Re: Coincident pair with TSB-165A

...source of each WM-55A, one to the + and one for the - of the INA217 preamp. What if I took the **Alice** circuit and disconnected the top 0.47 mF cap and connected it to another input section, replicating...possible to take > > the 2-mic topology of the Side mics and stick that at the front of the > > [qw1209po](#) 20 Jul, 2005

Re: [micbuilders] Re: Coincident pair with TSB-165A

...s MS circuit, I think it should be possible to take > the 2-mic topology of the Side mics and stick that at the front of the > **Alice** circuit. > > Steve > > --- In micbuilders@^\$1, "[qw1209po](#)" wrote: > > Thanks for the tip! > > > > I'm also considering an MS mic...

[Scott Helmke](#) 20 Jul, 2005

Re: Coincident pair with TSB-165A

...dayvel's MS circuit, I think it should be possible to take the 2-mic topology of the Side mics and stick that at the front of the **Alice** circuit. Steve --- In micbuilders@^\$1, "qw1209po" wrote: > Thanks for the tip! > > I'm also considering an MS mic using the TSB...
[qw1209po](#) 19 Jul, 2005

Re: Coincident pair with TSB-165A

Thanks for the tip! I'm also considering an MS mic using the TSB-165, but I'm wondering how to set that up with the **Alice** design. I'd be powering from the phantom 48v of a mic preamp; any ideas on how the **Alice** design can be modified to accomodate 2...
[qw1209po](#) 19 Jul, 2005

Re: [micbuilders] 10 db pad

...formulas for less or more attenuation... but...how much are Z1 and Z2...? maybe a stupid question..i'm not a technician... i build the **alice** mic (great!!)...how much is the output Z (with the phantom power supply)? and the output Z2 of the circuit is the preamp impedance...
[Luca Vascon](#) 14 Jul, 2005

Re: [micbuilders] 10 db pad

...formulas for less or more attenuation... but...how much are Z1 and Z2...? maybe a stupid question..i'm not a technician... i build the **alice** mic (great!!)...how much is the output Z (with the phantom power supply)? and the output Z2 of the circuit is the preamp impedance...
[LuCa](#) 13 Jul, 2005

Re: [micbuilders] Correct 1-gig FET bias circuit? (Attn Scott Helmke)

...the simplest version for my prototype, and it worked so well I didn't bother to change it. But when I do the "II" version of the **Alice** one of the improvements will be to do the voltage-divider method, though a bit different than Dave's example. Really the only thing...
[Scott Helmke](#) 22 Jun, 2005

Re: First results from modifying TSB-165A capsule

...capsule > > > --- In micbuilders@^\$3, Scott Helmke wrote: > > Finally got around to modifying a TSB-165A capsule > > ... > > > **Alice** on the left and an **Alice** with the modded capsule on the right. > >

<http://www.scotthelmke.com/tsb165-vs-modded.mp3> > > > -Scott...

[Rich Peet](#) 06 Jun, 2005

Re: [micbuilders] Re: First results from modifying TSB-165A capsule

...modifying TSB-165A capsule --- In micbuilders@^\$2, Scott Helmke wrote: > Finally got around to modifying a TSB-165A capsule ... > **Alice** on the left and an **Alice** with the modded capsule on the right. >

<http://www.scotthelmke.com/tsb165-vs-modded.mp3> > > -Scott I ran...

[Joakim Lindén](#) 06 Jun, 2005

Re: First results from modifying TSB-165A capsule

...In micbuilders@^\$2, Scott Helmke wrote: > > > Finally got around to modifying a TSB-165A capsule > > > ... > > > > **Alice** on the left and an **Alice** with the modded capsule on the right. > > >

<http://www.scotthelmke.com/tsb165-vs-modded.mp3>...

[Rich Peet](#) 03 Jun, 2005

Re: [micbuilders] Re: First results from modifying TSB-165A capsule

...Peet wrote: > --- In micbuilders@^\$1, Scott Helmke wrote: > > Finally got around to modifying a TSB-165A capsule > > ... > > > **Alice** on the left and an **Alice** with the modded capsule on the right. > >

<http://www.scotthelmke.com/tsb165-vs-modded.mp3> > > > -Scott...

[Scott Helmke](#) 03 Jun, 2005

Re: First results from modifying TSB-165A capsule

--- In micbuilders@^\$1, Scott Helmke wrote: > Finally got around to modifying a TSB-165A capsule ... > **Alice** on the left and an **Alice** with the modded capsule on the right. > <http://www.scotthelmke.com/tsb165-vs-modded.mp3> > > -Scott I ran...

[Rich Peet](#) 03 Jun, 2005

Re: [micbuilders] First results from modifying TSB-165A capsule

Thanks for the comments. Some people really like the capsule (and therefore the **Alice**) just the way it is. Obviously there's a reason the capsule was manufactured with the HF filter...recording I hear the resonance of the body of the guitar, while > that is missing on the modified
[Scott Helmke](#) 02 Jun, 2005

Re: [micbuilders] First results from modifying TSB-165A capsule

Scott Don't mean to burst your bubble, BUT I like the sound of the stock **Alice** better. Of course my listening environment is not the best. I use a Sound Blaster Audigy sound...recording I hear the resonance of the body of the guitar, while that is missing on the modified **Alice**. The highs seem to be
[Keith Nelsen](#) 02 Jun, 2005

Re: [micbuilders] First results from modifying TSB-165A capsule

...one of those little hobby lathes to do it right. > > OK, enough blather. I recorded a short bit of acoustic guitar with a stock > **Alice** on the left and an **Alice** with the modded capsule on the right. >
<http://www.scotthelmke.com/tsb165-vs-modded.mp3> > > -Scott [Non...
[Jason May](#) 01 Jun, 2005

Re: [micbuilders] First results from modifying TSB-165A capsule

...Finally got around to modifying a TSB-165A > capsule, ... > > ... I recorded a short bit of acoustic guitar > with a stock > > **Alice** on the left and an **Alice** with the modded > capsule on the right. > >
<http://www.scotthelmke.com/tsb165-vs-modded.mp3> > > It sounds...
[Eric Benjamin](#) 01 Jun, 2005

Re: [micbuilders] First results from modifying TSB-165A capsule

...wrote: > Finally got around to modifying a TSB-165A capsule, ... > ... I

recorded a short bit of acoustic guitar with a stock > **Alice** on the left and an **Alice** with the modded capsule on the right. >

[Mike Feldman](#) 01 Jun, 2005

First results from modifying TSB-165A capsule

...get one of those little hobby lathes to do it right. OK, enough blather. I recorded a short bit of acoustic guitar with a stock **Alice** on the left and an **Alice** with the modded capsule on the right.

<http://www.scotthelmke.com/tsb165-vs-modded.mp3> -Scott -- ---- Scott...

[Scott Helmke](#) 01 Jun, 2005

Re: Introducing Fred, spawn of Alice ;)

...From: "qw1209po" > >Reply-To: micbuilders@^\$2 > >To: micbuilders@^\$3 > >Subject: [micbuilders] Re: Introducing Fred, spawn of **Alice** ;) > >Date: Mon, 23 May 2005 05:23:02 -0000 > > > > In the Senn those cuts function as interference slots that make even...

[qw1209po](#) 24 May, 2005

Re: [micbuilders] Re: Introducing Fred, spawn of Alice ;)

On Monday 23 May 2005 01:23, qw1209po wrote: > Are you finishing your bodies with anything? Copper will > oxidize over time. I was thinking of some kind of clearcoat or > varnish. And BTW: do you wear a mask when Dremeling copper? All that > fine dust worries me. I do a somewhat

[Scott Helmke](#) 23 May, 2005

RE: [micbuilders] Re: Introducing Fred, spawn of Alice ;)

...umashankar >From: "qw1209po" >Reply-To: micbuilders@^\$1 >To: micbuilders@^\$2 >Subject: [micbuilders] Re: Introducing Fred, spawn of **Alice** ;) >Date: Mon, 23 May 2005 05:23:02 -0000 > > > In the Senn those cuts function as interference slots that make even > > the omni...

[umashankar mantravadi](#) 23 May, 2005

Re: Introducing Fred, spawn of Alice ;)

...thinking here as well. Richard, you're giving me way too much credit. I began cutting those slots to make large openings like **Alice**, but after my second cut became inadvertently offset due to a runaway Dremel, I

decided to start with slate because I liked the
qw1209po 23 May, 2005

Re: [micbuilders] Introducing Fred, spawn of Alice ;)

...foam and cloth around the capsule. -Scott On Sunday 22 May 2005 01:37, qw1209po wrote: > Well, I've finished Fred, my version of **Alice**. Pictures are in the > File section, in my folder: Steve's Thangs. Some construction notes: > > - I used 3/4" pipe primarily because...
Scott Helmke 22 May, 2005

Re: Introducing Fred, spawn of Alice ;)

--- In micbuilders@^\$1, "qw1209po" wrote: > Well, I've finished Fred, my version of **Alice**. Pictures are in the > File section, in my folder: Steve's Thangs. ... > The cardioid mic behavior seems to be ok with only straight...
Rich Peet 22 May, 2005

Introducing Fred, spawn of Alice ;)

Well, I've finished Fred, my version of **Alice**. Pictures are in the File section, in my folder: Steve's Thangs. Some construction notes: - I used 3/4" pipe primarily because...
qw1209po 22 May, 2005

Re: My version of Alice likes to HUMMMM

> Pictures! I want pictures! :) ...and you will as soon as I finish the mic properly; I took it apart to follow your suggestions. Slug barrier, eh? :) I also hadn't finished the top screening properly, so that might have been contributing to the noise as well. Thanks for the tips. Steve > > I've found
qw1209po 18 May, 2005

Re: [micbuilders] My version of Alice likes to HUMMMM

...01:04, qw1209po wrote: > This message is more for Scott, but of course anyone is welcome to > chime in. > > I built a version of **Alice** this weekend, using the **Alice** circuit > diagram and copper tubing (but I went for 3/4" copper...will post > pictures ASAP...
Scott Helmke 16 May, 2005

My version of Alice likes to HUMMMM

This message is more for Scott, but of course anyone is welcome to chime in. I built a version of **Alice** this weekend, using the **Alice** circuit diagram and copper tubing (but I went for 3/4" copper...will post pictures ASAP). It seems...

[qw1209po](#) 16 May, 2005

Re: [micbuilders] Re: 2 TSB-165 circuit differences?

...implement the wiring to capsule. One of these days I'm going to play around with modifying the TSB-165A and hopefully come up with an "**Alice II**" design that's flatter in response and has that biasing stuff too. I think what I'll do there is have a 100M trimpot between...

[Scott Helmke](#) 07 May, 2005

Re: 2 TSB-165 circuit differences?

...circuit which somewhere in the files section here. --- In micbuilders@^\$1, "qw1209po" wrote: > > Thanks Scott. > > Do you think **Alice** might benefit by having that resistor network, or > the 1 meg trimpot, wired in? If so, how would the pot be calibrated? > > Steve...

[dayVel](#) 07 May, 2005

Re: 2 TSB-165 circuit differences?

Thanks Scott. Do you think **Alice** might benefit by having that resistor network, or the 1 meg trimpot, wired in? If so, how would the pot be calibrated? Steve...

[qw1209po](#) 07 May, 2005

Re: [micbuilders] Re: A microphone preamp based on the Jensen JT-16A

...design too - front end based on an idea from wireless world (distortion in low noise preamplifiers) and the second half from the **alice** mixer. i always felt low distortion in the input stage really makes a greater difference than even extreme low noise. i have built...

[umashankar mantravadi](#) 22 Apr, 2005

Re: [micbuilders] Stereo microphone construction

...Benjamin wrote: > This message is primarily addressed to Scott Helmke because of the > work that he did on his stereo microphone, the **Alice** microphone, and > others. > <http://www.scotthelmke.com/stereo-mic.html>
> But everyone else please feel free to chime in. > > Scott...

[Scott Helmke](#) 19 Apr, 2005

Stereo microphone construction

This message is primarily addressed to Scott Helmke because of the work that he did on his stereo microphone, the **Alice** microphone, and others. <http://www.scotthelmke.com/stereo-mic.html> But everyone else please feel free to chime in. Scott, I'm building...

[Eric Benjamin](#) 19 Apr, 2005

Re: [micbuilders] Re: Help getting started

...Paulie, I can't answer your questions about the wm-55 mic compared to > something like the ³**alice**² > mic, but since they aren't expensive you can build both and see what works > best for you...little more expensive usually. Good luck. > > > Jason > > > > Hi Jason, I checked out the

[Jason May](#) 16 Apr, 2005

Re: Help getting started

Hi Jason, I checked out the **Alice** mic on Scott's site. Pretty impressive packaging. To answer your question, my daughter's band, Three Andreas, plays rock. When we get them to turn the guitars down, they sound pretty good. Just curious, would the **Alice** perform better than the wm-55 in a loud

[akapaulie](#) 16 Apr, 2005

Re: [micbuilders] Help getting started

...different than a rock band and may warrant > different mics. What kind of music does your daughter's band play? Scott > Helmke's **Alice** mic is probably appropriate for a lot of different > styles/instruments, and shouldn't be too hard to put together provided you...

[Jason May](#) 12 Apr, 2005

Re: [micbuilders] Re: Scott and Alice

On Tuesday 29 March 2005 15:20, Gene Dorcas wrote: > I have a special application where I have to use an electret capsule(> WITHOUT disconnecting the case) into a XLR input. Is there some simple > circuit I can use without building a balanced mic preamp??? > > Thanks, > Gene
[Scott Helmke](#) 30 Mar, 2005

RE: [micbuilders] Re: Scott and Alice

...Scott Helmke [mailto:scott@^\$1] Sent: Sunday, March 27, 2005 1:51 PM
To: micbuilders@^\$2 Subject: Re: [micbuilders] Re: Scott and **Alice** By the way, I'm considering maybe a kit of the hard to obtain (or make) parts. Not anything with step-by-step, or all the bits...
[Gene Dorcas](#) 29 Mar, 2005

Re: [micbuilders] Re: Scott and Alice

Hi, Scott. I would be very interested in something like this. Please let me know the details should you make the kit available. Regards, Chris Neves
Metronome Studios On Sun, 27 Mar 2005, Scott Helmke wrote: > By the way, I'm considering maybe a kit of the hard to obtain (or make) > parts.
[Seven](#) 28 Mar, 2005

Re: [micbuilders] Re: Scott and Alice

By the way, I'm considering maybe a kit of the hard to obtain (or make) parts. Not anything with step-by-step, or all the bits, but a bag with the mic capsule, the connector, various little things that I've had to make like the capsule clip. -Scott -- ---- Scott Helmke ---- scott@^\$1 ---- (734) 604-9340
[Scott Helmke](#) 27 Mar, 2005

Re: [micbuilders] Re: Scott and Alice

...yesterday...very cool review. I think I would like to > build this mic. > > Scott, is the schematic at <http://www.scotthelmke.com/alice-mic.html> > the final version? > > > -- ---- Scott Helmke ---- scott@^\$1 ---- (734) 604-9340 -
--- And you'll visualize not taking...
[Scott Helmke](#) 27 Mar, 2005

Re: Scott and Alice

...issues yesterday...very cool review. I think I would like to build this mic. Scott, is the schematic at <http://www.scotthelmke.com/alice-mic.html> the

final version? --- In micbuilders@^\$1, Mike Feldman wrote: > nnavarrojr wrote: > > Which issue? #45 is the latest...

[nnavarrojr](#) 27 Mar, 2005

Re: [micbuilders] Re: Scott and Alice

nnavarrojr wrote: > Which issue? #45 is the latest I've received and I don't see it. TapeOp No. 46, Mar/Apr 2005 You got to remember to go to the website and agree to be spammed to continue getting the free subscription. -- Mike

[Mike Feldman](#) 24 Mar, 2005

Re: Scott and Alice

Which issue? #45 is the latest I've received and I don't see it. --- In micbuilders@^\$1, Mike Feldman wrote: > Every couple of months I come home to find a new issue of TapeOp, > and on the first page-through, right there on p72 in the gear section, > there's *Scott Helmke* in bold face type, [nnavarrojr](#) 23 Mar, 2005

Re: [micbuilders] Scott and Alice

...the first page-through, right there on p72 in the gear section, > there's *Scott Helmke* in bold face type, and a review of the **Alice** mic. > > Congrats (or condolences?) on the good press. > > -- Mike -- ---- Scott Helmke ---- scott@^\$1 ---- (734) 604-9340...

[Scott Helmke](#) 23 Mar, 2005

Scott and Alice

Every couple of months I come home to find a new issue of TapeOp, and on the first page-through, right there on p72 in the gear section, there's *Scott Helmke* in bold face type, and a review of the **Alice** mic. Congrats (or condolences?) on the good press. -- Mike

[Mike Feldman](#) 23 Mar, 2005

Re: [micbuilders] Re: Use Transound Capsules with TapeOp PS?

...version sounds great but can be overloaded by loud things) > > Isn't this the 165A circuit?: > > <http://www.scotthelmke.com/alice-schematic.jpg> > >

The 165A doesn't have an internal FET. > > Steve > -- ----- Scott Helmke ---
[Scott Helmke](#) 19 Mar, 2005

Re: Use Transound Capsules with TapeOp PS?

> For the 165A I've been using this circuit: >
<http://www.scotthelmke.com/phantom-power.jpg> > (I may be adding a couple resistors to this to help with high SPLs... this > version sounds great but can be overloaded by loud things) Isn't this the 165A circuit?:
[qw1209po](#) 19 Mar, 2005

Re: [micbuilders] Mic capsules in Scandinavia

...just the world. they are needed in Titan !!! umashankar >On Sunday 16 January 2005 10:19, ebenj@^\$1 wrote: > > Congrats on the **Alice** mic sale. You're on your way to becoming a > > microphone gazillionaire. > >Well, if there's one thing the world needs, it's more...
[umashankar mantravadi](#) 16 Jan, 2005

Re: [micbuilders] Mic capsules in Scandinavia

On Sunday 16 January 2005 10:19, ebenj@^\$1 wrote: > Congrats on the **Alice** mic sale. You're on your way to becoming a > microphone gazillionaire. Well, if there's one thing the world needs, it's more microphones. ;) -Scott -- Scott Helmke [scott@^\\$2](mailto:scott@^$2) (+47) 67-52-58-80 (office)
[Scott Helmke](#) 16 Jan, 2005

Re: [micbuilders] Mic capsules in Scandinavia

...To me, it looks a lot like a Primo EM-68. Not exactly the same, but close. Congrats on the **Alice** mic sale. You're on your way to becoming a microphone gazillionaire. ----- Original Message...brother lives here so wouldn't be a problem getting more. > > -Scott > > P.S. I brought one of my ebenj@pacbell.net 16 Jan, 2005

Mic capsules in Scandinavia

...of getting a couple before I leave. My brother lives here so wouldn't be a problem getting more. -Scott P.S. I brought one of my **Alice** mics to show my brother... his wife plays bass (jazz), and took it to the small studio where she was recording last week. The guy...
[Scott Helmke](#) 16 Jan, 2005

Re: [micbuilders] Transsound Circuit Mysteries

...processing!), but I'm a bit confused by the circuit diagrams provided > on the Transsound website. > > I know that Scott H.'s **Alice** was built with the TSB-165A, which is a > "FET-less" capsule, though the schematic provided by Transsound refers > to Terminal...

[Bob Cain](#) 11 Jan, 2005

Re: [micbuilders] Transsound Circuit Mysteries

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[Scott Helmke](#) 11 Jan, 2005

Transsound Circuit Mysteries

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[qw1209po](#) 11 Jan, 2005

Re: [micbuilders] transistor type

...Wednesday 22 December 2004 03:24, Luca wrote: > Hi. > i'm going to mount some mics with the phantom power supply box using the > "**alice**" schematic; > -I search the 2N5087 transistor but here in Italy there aren't sellers > that has it....so I found a substitute...

[Scott Helmke](#) 22 Dec, 2004

transistor type

Hi. I'm going to mount some mics with the phantom power supply box using the "**alice**" schematic; -I search the 2N5087 transistor but here in Italy there aren't sellers that has it....so I found a substitute...the...

[Luca](#) 22 Dec, 2004

Re: [micbuilders] Re: Transsound 120 vs 140 vs 160 vs 165?

Scott Helmke wrote: > Maybe put a 140A in an **Alice** > body and compare to the Brazil, which uses a 140A? I only bought six of the > 140A in the original buy, so I'm looking forward...

[Bob Cain](#) 08 Dec, 2004

Re: Transsound 120 vs 140 vs 160 vs 165?

> I would guess that the Brazil mic I did would be a > good candidate for comparison, since the capsule is > right out in the open. Maybe put a 140A in an **Alice** > body and compare to the Brazil, which uses a 140A? An idea I just had: if we could find two concentric pipes, we could slide one over the

[qw1209po](#) 08 Dec, 2004

Re: [micbuilders] Re: Transsound 120 vs 140 vs 160 vs 165?

...ball windscreen most of them only have a few slots around the back of the capsule. There's definitely a proximity effect with the **Alice**, especially since the capsule is very close to the end of the windscreen. Playing around with singing and headphones I was able...

[Scott Helmke](#) 08 Dec, 2004

Re: Transsound 120 vs 140 vs 160 vs 165?

...cartridges? Are these purely OEM? I'd go for better performance for \$10-20 dollars. One for Scott: Im really impressed with both **Alice** and the stereo mic; I'm already collecting parts for them. But I was wondering about his statement from Eric: > And you can change...

[qw1209po](#) 08 Dec, 2004

Re: [micbuilders] Group buy on Gig ohm resistors?

Alice could be stereo - it's just a matter of building two circuits. I suppose you could shave the parts count by having only one voltage...the J202. Not sure about circuit board dimensions - the biggest parts are the 0.47uF film caps, and to fit everything inside the **Alice** I had to put one of them on the

[Scott Helmke](#) 03 Dec, 2004

RE: [micbuilders] Group buy on Gig ohm resistors?

...and the deal is that you lay out (with their proprietary program) the board and then they build it... only 15 components in the "**Alice**" circuit.... I'm going to use some of this possible buying power to get this circuit in glass.

Can **Alice** be Stereo... What are...

[Brian Dasilva](#) 02 Dec, 2004

Re: [micbuilders] Re: "Alice" (TSB-165A) mic webpage

...totally admire the craftsmanship of the casework. As a > newbie electronics/mic guy though, I'm puzzled by the screen on the > **Alice** mic. It appears to be an end address mic, so why is the case > open around the side, under the capsule? > > Also, could you be...

[Scott Helmke](#) 13 Nov, 2004

Re: "Alice" (TSB-165A) mic webpage

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[thepompousdwarf](#) 13 Nov, 2004

"Alice" (TSB-165A) mic webpage

...it's what I did in the prototype, and which sounds great. No fooling, this is a pro-quality mic. :) <http://www.scotthelmke.com/alice-mic.html>

scott@scotthelmke.com 11 Nov, 2004