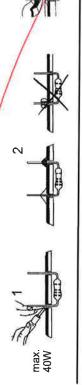
## ee etteched proges

Assignment - Double-sided board

in onligh bitoged Agur!

\* Miurafonen måste kopplas

Soldering - Solderen - Soudage - Loten - Soldadura - Lödning - Juottami nen - Saldatura - Solda





# Resistor - Weerstand - Résistance - Widerstand - Resistencia - Motstand · Vastus - Resistenze

◇ R1:10K

◊ R2:330K

♦ R6 ... R9: 47E

O R10 ... R12: 1M5

◊ R13, R14: 47K

WSL104\_15022020

(Brown, Black, Orange) - (Bruin, Zwart, Oranje) - (Brun, noir, Orange) - (Braun, Schwarz, Orange) - (Brun, Svart, Orange) - (Ruskea, Musta, Oran - (Матrби, Negro, Naranjado)

(Orange, Orange, Yellow) - (Oranje, Oranje, Geel) - (Orange, Orange, Jalune) - (Orange, Orange, Gelb) - (Orange, Orange, Gul) - (Orange, Orange, Orange)

(Brown, Black, Yellow) - (Bruin, zwart, Geel) - (Brun, noir, Jaune) - (Brau Schwarz, Gelb) -(Brun, Svart, Gul) - (Ruskea, Musta, Keltainen)

(Yellow, Purple, Black) - (Geel, Paars, Zwart) - (Jaune, Violet, Noir) - (Gelb, Violet, Schwarz) - (Gul, Lila, Svart) - (Keltainen, Purppura, Musta)

(Brown, Green, Green) -(Bruin, Groen, Groen) -(Brun, Vert, Vert) -(Braun, Grün, ) -(Brun, Grön, Grön, -(Ruskea, Vihreä, Vihreä) -(Marrón, Verde,

(Yellow, Purple, Orange) - (Geel, Paars, Oranje) - (Jaune, Violet, Orange) - (Gelb, Violet, Orange) - (Gul, Lila, Orange) - (Keltainen, Purppura, Oranssi) -

₹,0 X

1M5

SMD SIZE 0805 · GV bettery : ettached by Zpin connector. · All resistors are

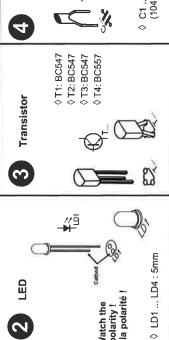
, CMEJ-0605-36-L030 o transistars; hepsel 70-92 microphone

Electrolytic Capacitor

(D

Capacitor

attach by 2 pin connector



t. la polarité !

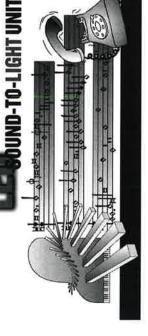
ω

7 Microphone

6 Trimmer

◊ RV1:220K

Watch the polarity! ♦ C4 : 100µF ♦ C1 .... C3: 100nF (104)



LEDS! are through hole components.

· Trimpotationeter PT15NV15224A2020 IPMS



MODEL: CMEJ-0605-36-L030 | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

### **FEATURES**

- omnidirectional
- 6 mm diameter
- 30 mm lead wires





## **ELECTRICAL**

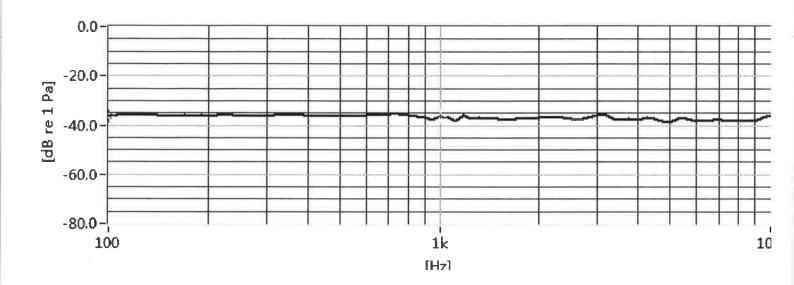
parameter	conditions/description	min	typ	max	units		
directivity	omnidirectional						
sensitivity (S)	at 1 kHz (0 dB = 1 V/Pa)	-38	-36	-34	dB		
supply voltage (Voo)		1.0	2.0	10	V		
current consumption	Voo = 2.0 V, RL = 2.2 kΩ			0.5	mA		
sensitivity reduction	Vao = 2.0 ~ 1.5 V			3	dB		
frequency [f]		100		10,000	Hz		
signal to noise ratio (S/N)	at 1 kHz, Pin = 1 Pa (A-weighted)		60		dBA		
total harmonic distortion (THD)	at 94 dB SPL, 1 kHz at 115 dB SPL, 1 kHz			1 3	% %		
acoustic overload point (AOP)	at 1 kHz			115	dB SPL		
output impedance (Zout)	at 1 kHz			2.2	kΩ		

Notes: 1. All specifications measured at 20±2°C, humidity at 60-70%, unless otherwise noted.

### **ENVIRONMENTAL**

parameter	conditions/description	min	typ	max	units
operating temperature		-40		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	30		85	%
storage humidity	non-condensing	30		75	%
hand soldering	for 1~3 seconds	340	350	360	°C
RoHS	yes				

## FREQUENCY RESPONSE CURVE



## **APPLICATION CIRCUIT**

