Electronics – Tuts, tips and much more …

If we hear, we forget; if we see, we remember; if we do, we understand – Confucius

EAGLE Library – List of most commonly used electronics components

Posted by Omkar on October 9, 2009

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EAGLE is preferred by many hobbyists and professionals all over the world. EAGLE comes with huge component library, however to find the desired part in this library is really difficult for beginners. Generally we need resistors, capacitors, voltage regulators, pin headers, connectors, etc when designing any electronic PCB. Following is the list of EAGLE library part names of most commonly used electronics components. This list will be very handy when you have just started using the EAGLE and don't know which part to select and from which library.

Passive components:

Name	Library	Device	Package	Illustrative Image
Pin headers – male	con-lsta			
Ceramic disc capacitors having 2.54mm lead spacing (e.g.: 27pf, 100nf)	rcl > C-EU	C-EU025-025X050	C025-025X050	

Ceramic disc capacitors having 5.08mm lead spacing (e.g.: 220nf)	rcl > C-EU	C-EU050-030X075	C050-030X075	
Electrolytic capacitors, values less than 10uF and voltage rating upto 50V	rcl > CPOL-EU	CPOL-EUE2.5-6	E2,5-6	
Electrolytic cap 220uF	rcl > CPOL-EU	CPOL-EUE5-10.5	E5-10,5	
Crystal	Crystal > Crystal	CRYSTALHC49U70	HC49U70	
32.768K Crystal	Crystal > Crystal	CRYSTALTC26H	TC26H	
78xx Voltage regulator – Vertical	linear > 78*	7805TV	TO220V	
1N5408 – 3A Diode	diode-1	1N5408	DO35-10	
Resistors 1/4W – tight fit	rcl > R-EU_	R-EU_0207/7	0207/7	
Resistors 1/4W – normal fit	rcl > R-EU_	R-EU_0207/10	0207/10	
Trimpot – 3296 (Vertical)	rcl > R-TRIMM	R-TRIMM64W	RTRIM64W	
LEDs 3mm	led > LED	LED3MM	LED3MM	
LEDs 5mm	led > LED	LED5MM	LED5MM	
Jumper – single	jumper	JP1E		
Jumper – double	jumper	JP2Q		
PBT Connectors – 2Pin	con-ptr500+	AK500/2	AK500/2	
PBT Connectors – 3Pin	con-ptr500+	AK500/3	AK500/3	
Piezo buzzer	buzzer	F/CM12P	F/CM12P	

Microswitch – 4 Lead	switch-omron	10-XX	B3F-10XX	
Mini slide switch	switch	255SB	255SB	
D type 9 pin Serial connector, PCB Mountable	con-subd > F09	F09H	F09H	

Passive components SMD:

Name	Library	Device	Package	Illustrative Image
Diode LL4148	Diode > DIODE-	DIODE-MINIMELF	MINIMELF	
NPN transistor (BC847	transistor-npn > BC847*	BC847SMD	SOT23	
Resistors	rcl > R-EU_	R-EU_M0805	M0805	
Capacitors (<100 nf)	rcl > C-EU	C-EUC0805	C0805	

This entry was posted on October 9, 2009 at 11:18 pm and is filed under Electronics. Tagged: component library, EAGLE, Electronic Components, library. You can follow any responses to this entry through the RSS 2.0 feed. You can leave a response, or trackback from your own site.

15 Responses to "EAGLE Library – List of most commonly used electronics components"

1. *online electronics tutorials* said

   March 5, 2013 at 12:00 am
   Nice list. It would have been more better if you would also have shared the download link to download these libraries. and also some link to download non-default eagle libraries.

   Reply

2. *Arduino LED Dimmer: Part 3 » Dan's Blog* said

   November 17, 2012 at 5:50 pm
   [...] and Linear are standard libraries that come with Eagle, for navigating those, I stumbled across a list of common components and where to find them. I quickly bookmarked that before I lost [...]

   Reply

3. *Eagle VGA & PS2 kbd/mouse connectors* said

   August 21, 2012 at 7:19 pm
   [...] Here is a list of commonly used parts along with the library: http://elecrom.wordpress.com /2009/10…cs-components/ I also found a nice video explaining how to create custom components like a VGA port: [...]

   Reply

4. *techiebinal* said

   July 13, 2012 at 11:47 am
   Very helpful.Thank You.

   Reply

5. *praneet* said

   July 3, 2012 at 5:10 pm
   Great ! But how do I place 12v (Vcc) in schematic i.e the positive of battery?For gnd there is gnd but what about Vcc?

   Reply

6. *Wassy* said

July 4, 2011 at 2:03 am
Great reference for Eagle CAD. Thank you very much

Reply

7. *tirtha* said

March 27, 2011 at 12:07 pm
hey is there a way in which i can add the footprints of ICS that arnt available in d list ?

Reply

   ○ *Omkar* said

   March 28, 2011 at 11:25 pm
   you can create your own library components. See the eagle manual.

   Reply

8. *Elif* said

March 22, 2011 at 9:20 pm
Where can I find 2N2222 or BC109 in Eagle?

Reply

   ○ *Omkar* said

   March 22, 2011 at 11:07 pm
   library : Transistors>2N2222

   or simply put search for "2N2222" in search box of "ADD" dialog.

   Reply

9. *Dave* said

January 6, 2010 at 7:54 pm
Are you trying to say a 1N4148 is a 3 amp Diode?

Reply

- ○ *Omkar* said

    January 8, 2010 at 5:43 pm
    Opps sorry. Thanks for pointing it out. It should be 1N5408.

    Reply

10. *BlackCow* said

    November 11, 2009 at 2:48 pm
    This is immensely useful, especially for those of us who are new to eagle and don't know where all the parts are. The search feature is useless in Eagle. Thank you very much!

    Reply

    - ○ *Omi* said

        November 11, 2009 at 5:38 pm
        Hey … don't blame EAGLE, search feature in EGLE is extremely useful, only thing beginners don't know is …. what to search for . And that's why I have put up this post

        Reply

11. *Rajan* said

    November 7, 2009 at 3:50 am
    Can you please tell where can i find RMC connectors in Eagle SOftware ?

    Reply

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