

Populating the USB Components on the EDB9301 Development Board

1. Introduction

This document provides the information needed to populate the USB area of the EDB9312 board. By default, the USB components are not installed at time of PCB assembly. This document has a short Bill of Material (BOM) in Table 1 that identifies the part numbers and reference designators of the components required for USB operation. Figure 1 shows the component placement on the PCB. The part numbers in the BOM are all available from DigiKey (www.digikey.com) as well as a variety of other component sources.

2. Instructions

Refer to the CD for the board schematics. The schematic will show the reference designators and the value for the parts. Located at the bottom of page 2 of the EDB9301 schematics is the USB circuit. The BOM for the USB circuit is at the end of this document.

WARNING

The customer is allowed to populate the USB portion of the EDB9301 circuit board without voiding any warranty only as long as appropriate anti-static precautions, proper soldering techniques and professional standards of workmanship are followed.

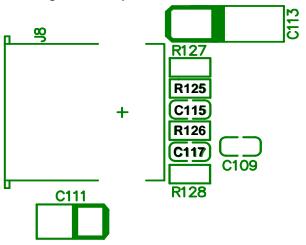
ltem	Quantity	Footprint	Description	Part Number	Part Manufacturer	Reference Designator
1	1	THOLE	Connector, USB, Right Angle, Type A	787616-1	AMP	J8
2	2	0603	Resistor, 15K, 1/10W, 5%	ERJ-3GEYJ153V	Panasonic	R127,R128
3	2	0603	Resistor, 15 Ohm, 1/10W, 5%	ERJ-3GEYJ150V	Panasonic	R125,R126
4	2	0603	Capacitor, 47pF, 50V, NPO	ECJ-1VC1H470J	Panasonic	C115,C117
5	1	0603	Capacitor, 0.1uF, 25V, XR7	ECJ-1VB1E104K	Panasonic	C109
6	1	Case B	Capacitor, 10uF, 16V, Tantalum	T491B106K016AS	Kemet	C111
7	1	Case C	Capacitor, 100uF, 6.3V, Tantalum	EEJ-L0JC107R	Panasonic	C113

Table 1. USB Circuit Bill of Material (BOM)





Figure 1. Component Placement



Revision	Date	Changes
1	13 April 2004	Initial Release
2	Jan 2005	Changed item 7 from 100uF, 100V, XR7 to 100uF, 6.3V, Tantalum.

Contacting Cirrus Logic Support

For all product questions and inquiries contact a Cirrus Logic Sales Representative. To find one nearest you go to <u>//www.cirrus.com</u>

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