

EVB-USB2504-CRB - USB2504 Customer Reference Board Revised: Friday, November 5, 2004

EVB-USB2504Q-LC Revision: A2



Bill Of Materials November 5, 2004

Item	Quantity	Part Reference	Description	Manufacturer	Part Number	Notes
1	0	C1	Capacitor, Do Not Populate, 0805			Do Not Populate
2	15	C2,C3,C4,C7,C9,C10,C11, C15,C20,C21, C23, C25, C27, C29, C42	Capacitor, 0.1uF, 25V, 10%, X7R, 0603	Panasonic	ECJ-1VB1E104K	
3	5	C5,C6,C8,C12,C18	Capacitor, 4.7uF, 6.3VDC, 20%, X5R, 0805	Panasonic	ECJ-2FB0J475M	Critical component
4	1	C13	Capacitor, 0.01uF, 16V, 10%, X7R, 0603	Panasonic	ECJ-1VB1C103K	
5	0	C24,C26,C28,C30	Capacitor, 0.01uF, 16V, 10%, X7R, 0603	Panasonic	ECJ-1VB1C103K	Do Not Populate
6	2	C14,C19	Capacitor, 33pF, 50V, 5%, NPO, 0603	Yageo America	0603CG330J9B200	
7	2	C16,C17	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0805	Panasonic	ECJ-GVB1C105K	
8	1	C22	Capacitor, Low ESR, 330uF, 10VDC, 20%, Aluminum, Radial-SMT, 8mm x 6.3mm	Panasonic	EEVFK1A331P	
9	0	C31,C32,C33,C34	Capacitor, 47uF, 16VDC, 20%, Aluminum, SMT, 5mm x 7mm	Panasonic	EEV-FK1C470UR	Do Not Populate
10	0	C35,C36,C37,C38,C39,C40, C41	Capacitor, Do Not Populate, 0603			Do Not Populate
11	0	FB1,FB2,FB3,FB4,FB5,FB6, FB7,FB8,FB10,FB11	Ferrite Bead, 2000mA, DCR=0,05, 0805	Murata	BLM21PG221SN1D	Do Not Populate
12	1	F1	Polyfuse, 2A, 8V, SMT	Raychem	MINISMDC200-2	
13	4	J1,J2,J3,J4	Receptacle, USB, Style A, Right Angle, Through-hole	AMP	787616-1	
14	1	J5	Receptacle, USB, Style B, Right Angle, Through-hole	AMP	787780-1	
15	1	J6	Connector, Power Jack, 2.0mm, 12V, 4A, Right Angle, TH	Cui Stack	PJ-002AH	
16	4	LED1,LED2,LED3,LED4	LED, Green, 3mm, Diffused, Right Angle	Lumex	SSF-LXH103GD	
17	1	LED5	LED, Yellow, 3mm, Diffused, Right Angle	Lumex	SSF-LXH103YD	
18	0	L1,L2,L3,L4,L5	Inductor, Common Mode Choke, 0805	Murata	DLW21SN900SQ2L	Do Not Populate
19	2	Q1,Q3	Transistor, FDN304P, P-Channel MOS-FET, 20V, 2.4A, SOT-23	Fairchild	FDN304P	
20	1	Q2	Transistor, 2N7002, N-Channel MOS-FET, 60V, 115mA, SOT-23	ON Semi	2N7002LT1	
21	0	R1	Resistor, Do Not Populate, 0805			Do Not Populate
22	6	R2,R3,R4,R5,R6,R13	Resistor, 330, 5%, 1/16W, 0603	Yageo America	9C06031A3300JLHFT	
23	1	R7	Resistor, 12.0K, 1%, 1/16W, 0603	Yageo America	9C06031A1202FKHFT	Critical component
24	4	R8,R12,R14,R15	Resistor, 100K, 5%, 1/16W, 0603	Yageo America	9C06031A1003JLHFT	
25	2	R9,R11	Resistor, 330K, 5%, 1/16W, 0603	Yageo America	9C06031A3303JLHFT	
26	2	R10,R16	Resistor, 1Meg, 5%, 1/16W, 0603	Yageo America	9C06031A1004JLHFT	Required component
27	1	U1	IC, USB2504, 4 Port USB 2.0 Hub, TQFP-64	Standard Microsystems Corp	USB2504	
28	1	U2	IC, PQ1L331M2ZP, Voltage Regulator, 3.3V, 300mA, Low Dropout, 900mW, SOT-89-5	Sharp	PQ1L331M2ZP	Alternate: Linear Technology LTC3025
29	1	Y1	Crystal, 24.000MHz, 50ppm, 18pF, HC-49SMT	Citizen America	HCM49-24.000MABJT	