

EVB-USB2507Q - USB2507 Evaluation Platform Revised: October 26, 2004

EVB-USB2507Q Revision A1



Bill of Materials

Item	Quantity	Part Reference	Description	Manufacturer	Part Number	Notes
1	7	C1 C4 C8 C17 C22-C24	Capacitor, Low ESR, 150uF, 10VDC, 20%, Aluminum, Radial-SMT, 6.3mm	Panasonic	EEV-FK1A151P	Critical for USB-IF droop/drop tests
2	4	C2 C5 C12 C15	Capacitor, 10uF, 6.3VDC, 20%, X5R, 0805	Panasonic	ECJ-2FB0J106M	Need to be low ESR ceramic capacitors
3	8	C3 C7 C9-C11 C13 C14 C16	Capacitor, 0.1uF, 16V, 10%, X7R, 0603	Panasonic	ECJ-1VB1C104K	
4	1	C6	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0603	Panasonic	ECJ-1VB1C105K	
5	2	C18 C19	Capacitor, 4.7uF, 6.3VDC, 20%, X5R, 0805	Panasonic	ECJ-2FB0J475M	Need to be low ESR ceramic capacitors
6	2	C20 C21	Capacitor, 33pF, 50V, 5%, NPO, 0603	Yageo America	0603CG330J9B200	Determined by choice of crystal
7	1	J1	Header, 1 x 4, 0.1 Inch, Latching, Vertical	AMP	640456-4	Not needed for production
8	7	J2 J5 J7-J11	Receptacle, USB, Style A, Upright, Right Angle, Through-hole	Molex	89485-0000	
9	1	J3	Connector, Power Jack, 2.0mm, 12V, 4A, Right Angle	Cui Stack	PJ-002AH	
10	1	J4	Header, 2 x 3, 0.1 Inch, Vertical	AMP	146256-3	
11	1	J6	Receptacle, USB, Style B, Right Angle, Through-hole	AMP	787780-1	
12	7	LED1-LED7	LED, Dual, Yellow/Green, T3, Right Angle	Dialight	553-0132	
13	4	R1-R4	Resistor, 10K, 5%, 1/16W, 0603	Yageo America	9C06031A1002JLHFT	
14	3	R5-R7	Resistor, 100K, 5%, 1/16W, 0603	Yageo America	9C06031A1003JLHFT	
15	1	R8	Resistor, Do Not Populate, 0805			
16	1	R9	Resistor, 12.0K, 1%, 1/16W, 0603	Yageo America	9C06031A1202FKHFT	Critical value
17	1	R10	Resistor, 1Meg, 5%, 1/16W, 0603	Yageo America	9C06031A1004JLHFT	
18	4	RN1-RN4	Resistor Array, 4 Element, 330, 5%, 0.06W, 1206 (4x0603)	Panasonic	EXB-38V331JV	
19	1	SKT1	Socket, IC, 8 Pin DIP, Leaf Contacts, Through Hole	Amp	2-641260-1	Not needed for production
20	4	U1 U2 U6 U7	IC, MIC2026-1BM, Power Distribution Switch, SO-8	Micrel	MIC2026-1BM	Substitutes acceptable note polarity for enable signal
21	1	U3	IC, LT1129CST-3.3, Voltage Regulator, +3.3V, 700mA, SOT-223	Linear Technology	LT1129CST-3.3	Can use lower cost higher standby current regulator
22	1	U4	IC, AT24C02A, 2 Wire Serial EPROM, 2Kb, 2.7V, DIP-8	Atmel	AT24C02A-10PI-2.7	
23	1	U5	IC, USB2507, 7 Port USB 2.0 Hub, TQFP-80	Standard Microsystems	USB2507	
24	1	Y1	Crystal, 24.000MHz, 50ppm, 18pF, HC-49SMT	Citizen America	HCM49-24.000MABJT	