



BOM -- EVB-USB2512BC

RoHS

Evaluation Board with Basic Feature Set, plus Battery Charging, PCB Rev A
 Assembly Revision A (BobbyBC)

Revised: 20100217

SKU: USB2512BC -- 2-port Battery Charge Version

Item	Qty	Qty Pop'd	Reference Designator(s)	Description	Manufacturer	Manufacturer Part Number	Notes
1	9	9	C7,C17,C18,C20,C25,C27,C33,C37,C38	Capacitor, 0.1uF, 6.3V, 10%, X5R, 0402	Murata	GRM155R71A104KA01D	
2	2	2	C21,C26	Capacitor, 1.0uF, 10%, 6.3V, X5R, 0402	Murata	GRM155R60J105KE19D	
3	2	2	C39,C46	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0603	Murata	GRM188R61C105KA93D	
4	6	6	C1,C2,C23,C30,C35,C43	Capacitor, 1000pF, 50V, 10%, X7R, 0402	Murata	GRM155R71H102KA01D	
5	2	2	C14,C15	Capacitor, 18pF, 50V, 5%, NPO, 0402	Murata	GRM1555C1H180JZ01	
6	2	2	C31,C32	Capacitor, 4.7uF, 6.3VDC, 20%, X5R, 0603	Murata	GRM188R60J475KE19D	
7	2	2	FB10,FB12	Ferrite Bead, 220 Ohm, 2A, 0.05DCR, 0603	Murata	BLM18EG221SN1D	
8	1	1	LED6	LED, Red, 0603	Stanley Electric	BR1111C-TR	
9	4	4	R25,R29,R32,R35	Resistor, 100K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ104V	
10	3	3	R27,R30,R31	Resistor, 100K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ104V	
11	1	1	R13	Resistor, 10K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ103V	
12	1	1	R18	Resistor, 12.0K, 1%, 1/16W, 0603	Panasonic	ERJ-3KF1202V	
13	1	1	R5	Resistor, 1K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ102V	
14	1	1	R28	Resistor, 1K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ102V	
15	1	1	R19	Resistor, 1Meg, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ105V	
16	3	3	R1,R2,R24	Resistor, 330, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ331V	
17	1	1	R14	Resistor, ZERO, 0.1W, 0603	Panasonic	ERJ-3GEY0R00V	
18	2	2	C10,C11,C12,C13	Capacitor, Low ESR, 100uF, 6.3VDC, 20%, Aluminum, Radial-SMT, 5mm x 5.8mm	United Chemi-Con	EMZA6R3ADA101ME61G	
19	1	1	Y1	Crystal, 24.000MHz, 50ppm, 18pF, HC-49SMT	Citizen America	HCM49-24.000MABJ-UT	
20	1	1	U1	IC, MIC2026-1YM, Power Distribution Switch, SO-8	Micrel	MIC2026-1YM	
21	1	1	U2	IC, MIC2505-1YM, Power Distribution Switch, SO-8	Micrel	MIC2505-1YM	
22	1	1	U5	IC, PQ1L333M2SP, Voltage Regulator, 3.3V, 300mA, Low Dropout, 900mW, SOT-89-5	Sharp	PQ1L333M2SP	
23	1	1	U4	IC, USB2512B, 2 Port USB 2.0 Hub, QFN36	SMSC	USB2512B-AEZG	
24	1	1	J6	Connector, Power Jack, 2.0mm, 12V, 4A, Right Angle, TH	Cui Stack	PJ-002AH	
25	2	2	LED1,LED2	LED, Green, 3mm, Diffused, Right Angle	Lumex	SSF-LXH103GD	
26	2	2	J1,J2	Receptacle, USB, Style A, Right Angle, Through-hole	AMP	292303-1	
27	1	1	J5	Receptacle, USB, Style B, Right Angle, Through-hole	AMP	292304-1	
28	1	1	PCB Fab	PCB, BobbyBC (EVB_USB2514QFN36BC), Rev. A	Circuit Express	PCB_EVB_USB2514QFN36BC_A	
29	4	4		Rubber Feet	Richco	RBS-35	Placed one per corner on the solder-side
30	1	1		Label, Assy: EVB-USB2512BC, Rev. A	SMSC		Placed on Top side near mounting hole adjacent to J4 (Supplied by SMSC)

31	2	0	C22,C24	Capacitor, 0.1uF, 6.3V, 10%, X5R, 0402	Murata	GRM155R71A104KA01D	Do Not Populate
32	5	0	C5,C6,C8,C9,C34	Capacitor, 0.1uF, 6.3V, 10%, X5R, 0402	Murata	GRM155R71A104KA01D	Do Not Populate
33	1	0	C42	Capacitor, 0.1uF, 6.3V, 10%, X5R, 0402	Murata	GRM155R71A104KA01D	Do Not Populate
34	1	0	C44	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0603	Murata	GRM188R61C105KA93D	Do Not Populate
35	2	0	C3,C4	Capacitor, 1000pF, 50V, 10%, X7R, 0402	Murata	GRM155R71H102KA01D	Do Not Populate
36	1	0	C36	Capacitor, 1000pF, 50V, 10%, X7R, 0402	Murata	GRM155R71H102KA01D	Do Not Populate
37	1	0	C29	Capacitor, 18pF, 50V, 5%, NPO, 0402	Murata	GRM1555C1H180JZ01	Do Not Populate
38	6	0	C16,C19,C28,C40,C41,C45	Capacitor, Do Not Populate, 0402			Do Not Populate
39	10	0	FB1,FB2,FB3,FB4,FB5,FB6,FB7,FB8,FB9,FB11	Ferrite Bead, 220 Ohm, 2A, 0.05DCR, 0603	Murata	BLM18EG221SN1D	Do Not Populate
40	5	0	L1,L2,L3,L4,L5	Inductor, Common Mode Choke, DLP11SN900SL2, 0504	Murata	DLP11SN900SL2	Do Not Populate
41	1	0	R6	Resistor, 10K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ103V	Do Not Populate
42	1	0	R23	Resistor, 10K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ103V	Do Not Populate
43	3	0	R26,R33,R34	Resistor, 10K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ103V	Do Not Populate
44	1	0	R20	Resistor, 1K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ102V	Do Not Populate
45	1	0	R21	Resistor, 1K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ102V	Do Not Populate
46	1	0	R22	Resistor, 1K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ102V	Do Not Populate
47	1	0	R36	Resistor, 1K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ102V	Do Not Populate
48	2	0	R3,R4	Resistor, 330, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ331V	Do Not Populate
49	8	0	R7,R8,R9,R10,R11,R12,R15,R16	Resistor, ZERO, 0.1W, 0603	Panasonic	ERJ-3GEY0R00V	Do Not Populate
50	1	0	R17	Resistor, ZERO, 0.1W, 0603	Panasonic	ERJ-3GEY0R00V	Do Not Populate
51	2	0	C12,C13	Capacitor, Low ESR, 100uF, 6.3VDC, 20%, Aluminum, Radial-SMT, 5mm x 5.8mm	United Chemi-Con	EMZA6R3ADA101ME61G	Do Not Populate
52	5	0	BR1,BR2,BR3,BR4,BR5	Diode, Bridge, Switching, 50V, 140mA,KCAC, SOT-143	Infineon Tech	BGX50A	Do Not Populate
53	1	0	U7	IC, LT1129IQ-3.3, Voltage Regulator, +3.3V, 700mA, DD 5-Lead	Linear Technology	LT1129IQ-3.3	Do Not Populate
54	1	0	U3	IC, MIC2026-1YM, Power Distribution Switch, SO-8	Micrel	MIC2026-1YM	Do Not Populate
55	1	0	U6	IC, AT24HC04B, 2 Wire Serial EPROM, 4Kb, 1.8V, DIP8	Atmel	24C04	Do Not Populate
56	2	0	LED3,LED4	LED, Green, 3mm, Diffused, Right Angle	Lumex	SSF-LXH103GD	Do Not Populate
57	1	0	LED5	LED, Orange, 5mm, TH, Right Angle	Dialight	550-2505	Do Not Populate
58	2	0	J3,J4	Receptacle, USB, Style A, Right Angle, Through-hole	AMP	292303-1	Do Not Populate
59	1	0	SKT1	Socket, IC, 8 Pin DIP, Leaf Contacts, Through Hole	Assmann	A08-LC-TT-R	Install at U6, Do Not Populate