

Assembly		Date		Version	
ESD BB Rev 2		04/12/16		3	
ETC Part Number	Description	Quantity	Designator	Manufacturer	Manufacturer Part Number
300-101636-SOCK	JACK NON-INSULATED RECESSED HEAD	1	BANANA JACK	Keystone Electronics	6095
300-101728-CONN	HOLDER BATTERY COIN 12MM DIA SMD	1	BATTERY HOLDER	Keystone Electronics	3000
300-101727-BATT	BATTERY LITHIUM 3V COIN 12.5MM	1	BATTERY 1	Panasonic - BSG	BR-1225
300-100007-CAP	CAP CER 0.01UF 50V 10% X7R 0603	1	C1	AVX Corporation	06035C103KAT2A
300-100026-CAP	CAP CER 0.1UF 100V 10% X7R 0603	12	C2, C3, C4, C5, C8, C9, C10, C11, C13, C21, C27, C29	Murata Electronics North America	GRM188R72A104KA35D
300-100090-CAP	CAP CER 1UF 50V 10% X5R 0603	2	C6, C7	Taiyo Yuden	UMK107BJ105KA-T
300-101711-CAP	CAP CER 0.015UF 25V NP0 0603	3	C12, C14, C20	Kemet	C0603C153F3GA CTU
300-101137-CAP	CAP CER 1UF 35V 10% X7R 1206	2	C15, C24	Taiyo Yuden	GMK316B7105KL-T
300-101713-CAP	CAP CER 33PF 50V NP0 0603	3	C22, C23, C28	Murata Electronics North America	GRM1885C1H330JA01D
300-101603-CAP	CAP CER 10UF 25V 10% X5R 0805	2	C25, C26	Murata Electronics North America	GRM219R61E106KA12D
300-101326-CAP	CAP CER 100UF 10V 20% X5R 1210	1	C30	Samsung Electro-Mechanics America, Inc	CL32A107MPVNNNE
300-101223-RES	RES 330 OHM 1/10W 1% 0603 SMD	3	C16, C17, C18	Panasonic Electronic Components	ERJ-3EKF3300V
300-101729-CHOK	CHOKER COMMON MODE 60 OHMS SMD	1	CHOKER1	Laird-Signal Integrity Products	CM3421Y600R-10
300-100968-DIO	DIODE ULTRA FAST GPP 400V 1A SMA	3	D1, D2, D3	Diodes Inc	US1G-13-F
300-101674-DIO	DIODE SCHOTTKY 40V 500MA SOD323	1	D5	Diodes Incorporated	B0540WS-7
300-101543-FUSE	FUSE SLOW 1206 HFREE 63V 2A	1	F1	Cooper Bussmann	CC12H2A-TR
300-101637-CONN	CONN FFC TOP 40POS 0.50MM R/A	1	H1	Molex Inc	0541044031
300-101700-CONN	CONN TERM BLOCK	1	H2	Phoenix Contact	1814760
300-101670-CONN	CONN RCPT 6POS VERT .100 SMD	1	JP1	TE Connectivity AMP Connectors	1241152-6
300-101646-RLAY	RELAY GEN PURPOSE DPDT 2A 5V	3	K1, K2, K3	Kemet	EE2-5NU-L
300-101120-IND	INDUCTOR 10UH 600MA 10% 1210	1	L1	TDK Corporation	NLCV32T-100K-PFR
300-101712-LED	Standard LEDs - SMD LED PMI	1	LED1	Lumex	SSL-LXA228USBCTR31
300-101379-FET	MOSFET N-CH 55V 2.1A SOT23	4	NFET1, NFET2, NFET3, NFET4	Alpha & Omega Semiconductor Inc	AO3422
300-101669-CONN	SAMTEC - TFM-110-02-L-D-A - HEADER, 1.27MM, SMD, 2X10 POSITION	2	P1, P2	SAMTEC	TFM-110-02-L-D-A
300-101635-CONN	Terminal Strip Header -Vertical Surface Mount - .100 cl	2	P8, P9	Major League Electronics	TSHSM-123-D-16-F-V-AP-LF
300-101644-HDWR	PEM Nut 4-40 Threaded Insert Electro-Plated Tin	2	PEM 1, PEM 2	Penn Engineering	KF2-440-ET
300-101682-FET	MOSFET P-CH 12V 2A TSMT3	2	PFET1, PFET3	Rohm Semiconductor	RZR020P01TL
300-101664-FET	MOSFET P-CH 30V 2A SOT-23	1	PFET2	STMicroelectronics	STR2P3LLH6
300-101751-FB	FERRITE BEAD 600 OHM 0603 1LN	3	R11, R12, R13	Laird-Signal Integrity Products	M0603J601R-10
300-101076-RES	RES 4.7K OHM 1/10W 1% 0603 SMD	7	R1, R3, R4, R27, R43, R44, R50	Panasonic Electronic Components	ERJ-3EKF4701V
300-100621-RES	RES SMD 100K OHM 0.1% 1/10W 0603	3	R2, R41, R42	Panasonic Electronic Components	ERA-3AEB104V
300-100809-RES	RES SMD 1M OHM 0.1% 1/16W 0603	17	R5, R6, R22, R23, R24, R25, R26, R28, R29, R31, R32, R36, R37, R38, R39, R40, R49	TE Connectivity AMP Connectors	1-1879417-9
300-101678-RES	RES SMD 249 OHM 1% 1/4W 1206	1	R7	Panasonic Electronic Components	ERJ-8ENF2490V
300-101135-RES	RES 511 OHM 1/10W 1% 0603 SMD	1	R9	Panasonic Electronic Components	ERJ-3EKF5110V
300-101680-RES	RES SMD 3.32 OHM 1% 1/10W 0603	1	R10	Yageo	RC0603FR-073R32L
300-101178-RES	RES 0.0 OHM 1/10W 0603 SMD	3	R47, R48, R55	Panasonic Electronic Components	ERJ-3GEY0R00V
300-100948-RES	RES 1.00K OHM 1/10W 1% 0603 SMD	1	R33	Panasonic Electronic Components	ERJ-3EKF1001V
300-101136-RES	RES 10.0 OHM 1/10W 1% 0603 SMD	3	R51, R52, R53	Yageo	RC0603FR-0710RL
300-101723-RES	RES SMD 348 OHM 1% 1/4W 1206	1	R56	Panasonic Electronic Components	ERJ-8ENF3480V
300-101051-RES	RES ARRAY 220 OHM 4 RES 1206	4	RN3, RN4, RN5, RN6	CTS Resistor Products	742C083221JP
300-101282-IC	IC PIC MCU FLASH 8KX14 64TQFP	1	U1	Microchip Technology	PIC16F946-IPT
300-101290-IC	IC OP AMP DUAL CMOS R-R 8-SOIC	3	U2, U5, U6	Texas Instruments	LMC6482IMNOPB
300-101647-IC	DGTL ISO 2.5KV GEN PURP 8SOIC	1	U3	Texas Instruments	ISO7221BDR
300-101645-PS	CONV DC/DC 1W 05VIN 05VOUT	1	U4	Recom Power	R1SE-0505/H2-R
300-101117-IC	IC LED DRVR WHITE BCKLGT SOT26-6	1	U7	Diodes Inc	AP5724WG-7
300-101725-IC	IC RTC CLK/CALENDAR I2C 8-SOIC	1	U8	Maxim Integrated	DS1307ZN+T&R
300-101329-OSC	OSC XO 20.000MHZ HCMOS TTL SMD	1	X1	CTS-Frequency Controls	CB3-3C-20M0000
300-101726-XTAL	Crystal 32.7680kHz 20ppm 12.5pF 50 kOhm -40°C - 85°C Surface Mount Cylindrical Can, Radial	1	X2	Citizen Finedevice Co Ltd	CMJ206T32768DZFT
ESD BB Rev 2	Blank PCB	1	N/A	N/A	N/A