

EIF1-BOM-01 Bill of Materials

Internal Part Number	Description	Designator	Quantity	Type	Part Comment	Manufacturer	Manufacturer Part Number	Digi-Key Part Number
100192	CONN HOLDER COIN CELL 20MM SMD	BAT1	1	NNP	CR2032 NNP	FCI	BK-912	BK-912-ND
100118	BUMPER CYLINDRICAL 0.44" DIA BLK	Z4, Z5, Z6, Z7	4	THRUHOLE	BUMPON	3M	S1-5003 (BLACK)	S15003-0-ND
100002	BUZZER PIEZO 4KHZ 12.2MM PC MNT	B21, B22	2	THRUHOLE	Thruhole alternate for 100180	TDK	PS1240P02AT	445-2525-1-ND
100180	BUZZER PIEZO 4KHZ SMT	B21, B22	2	NNP	4kHz	Ningbo	SFM-1240-05	
100130	CAP CER 0.1uF 10% X5R 25V 0603 SMT	C1, C3, C8, C9, C10, C12, C13, C14, C15, C17, C18, C19, C20, C21, C22, C23, C32, C34, C39, C40, C52, C53, C54, C56, C57, C58, C59, C60, C61, C62, C63, C64, C66, C69	34	SMT	0.1uF	TDK	C1608X7R1E104K	445-1316-2-ND
100005	CAP CER 1.0PF 100V NPO 0603	C36, C37	2	SMT	1.0pF	AVX	06031A1R0CAT2A	478-4983-1-ND
100233	CAP CER 10pF 50V 1% NPO 0603	C26, C65	2	SMT	10pF	Samsung	CL10C100FB8NMMC	1276-2152-6-ND
100006	CAP CER 10uF 10V X5R 0805	C2, C6, C7, C11, C16, C31, C51, C55	8	SMT	10uF 0805	Taiyo	LMK212B106KG-T	587-1300
100007	CAP CER 12pF 50V 0603 SMD	C27, C28, C29, C30	4	SMT	12pF	TDK	C1608C0G1H120J	445-1270-6-ND
100009	CAP CER 1uF 10% X5R 16V 0603 SMT	C4, C5, C41, C42, C43	5	SMT	1uF	Kemet	C0603C105K4PACTU	399-5090-1-ND
100241	CAP CER 2.2PF 250V NPO 0603	C35	1	SMT	2.2pF	Kemet	CBR06C229CAGAC	399-6180-6-ND
100010	CAP CER 2200PF 50V X7R 0603	C33, C38	2	SMT	2200pF	Kemet	C0603C22K5RACTU	399-1085-1-ND
100200	CAP CER 33PF 50V 5% NPO 0603	C24, C25, C67, C68	4	SMT	33pF	Murata	GRM1885C1H330JA01D	490-1415-2-ND
100102	CONN SD/MMC 9PIN PCB GOLD FLASH	J6	1	SMT	SD	Amphenol	101-00708-64	101-00708-64-ND
100031	CONN TERMINAL 12POS 0.100" RIGHT ANGLE	J3	1	THRUHOLE	BLADE Daughter Board Connector	Sullins	PPTC121LGBN-RC	55448-ND
100287	CONN USB RCPT MICRO AB R/A SMT WITH LEGS	J1, J2	2	SMT	MICRO AB	FCI	10118193-0001LF	609-4616-2-ND
100226	CRYSTAL 12.000000 MHZ SMD 18PF HC49	X1, X4	2	SMT	12MHz	Suntsu	SCD18B-12.000MHZ TR	
100035	CRYSTAL 16MHZ 8PF 3.2X2.5 SMD 0/70	X3	1	SMT	16MHz	Abracon LLC	ABM8-16.000MHZ-7-1-U-T	535-13466-2-ND
100037	CRYSTAL 32.768KHZ 7pF 3215 SMT	X2	1	SMT	32.768kHz	ECS	ECS-327-7-34B-TR	XC1656DKR-ND
100039	DIODE SCHOTTKY 1A 40V SOD123	D19	1	SMT	1N5819HW-7-F	Diodes Inc.	1N5819HW-7-F	1N5819HW-FDITR-ND
100040	DIODE SWITCHING 200mA 100V SOD123	D1, D2	2	SMT	MMSD4148T3G	ON Semi	MMSD4148T3G	MMSD4148T3GOSDKR
100049	IC LDO REG 300MA ADJ-V SOT23-5	U5	1	SMT	MCP1824	Microchip	MCP1824T-ADJE/OT	MCP1824T-ADJE/OTCT-ND
100223	IC RF NRF51422 6x6 QFN48	U3	1	SMT	nRF51422	Nordic Semiconductor	NRF41422-QFAA-T	N/A
100225	IC USB DUAL ESD PROTECT 6TSOP	U4	1	SMT	IP4220C26,125	NXP	IP4220C26,125	568-3529-6-ND
100240	INDUCTOR HI FREQ 10nH 2%	L3	1	SMT	10nH	Panasonic	ELU-QE10NGFA	P14825TR-ND
100239	INDUCTOR HI FREQ 3.3nH +/-0.3nH	L1	1	SMT	3.3nH	Kemet	LO603C3N3SRMST	399-9571-2-ND
100052	INDUCTOR HI FREQ 4.7+/-0.3nH	L2	1	SMT	4.7nH	Taiyo Yuden	HK1608AN75-T	587-1541-1-ND
	CONN MALE VERT 8POS 1.25MM PICOBLADE	J8	1	NNP	CONN 8POS NNP	Molex	053398071	WWM7612CT-ND
100096	LCD 20X2 CHARACTER RGB BACKLIGHT	U6	1	THRUHOLE	NHD-C0220BIZ-F5(RGB)-FB-3V	Newhaven Display	NHD-C0220BIZ-F5(RGB)-FB-3V	
100107	LED 0603 BLUE 470NM WTR CLR SMD	D8	1	SMT	BLU 0603	Kingbright	APT1608QBC/D	754-1434-1-ND
	LED 0603 GREEN CLEAR SMD	D3, D7, D18	3	SMT	GRN 0603		<NEED CHINESE PART>	
100067	LED 0603 RED CLEAR SMD	D4, D5, D17	3	SMT	RED 0603	Kingbright	APT1608SRCPRV	754-1122-2-ND
100068	LED 0603 YELLOW CLEAR SMD	D6	1	SMT	YLW 0603	Kingbright	APT1608SYCK	754-1124-1-ND
100110	LED PLCC2 GREEN ROUND CLEAR SMD	D13	1	SMT	GRN PLCC2		<NEED CHINESE PART>	
100112	LED PLCC2 ORANGE ROUND CLEAR SMD	D15	1	SMT	ORG PLCC2	Kingbright	AA3528SESK	754-1536-2-ND
100113	LED PLCC2 RED ROUND CLEAR SMD	D16	1	SMT	RED PLCC2	Kingbright	AA3528SUSK	754-1537-2-ND
100111	LED PLCC2 YELLOW ROUND CLEAR SMD	D14	1	SMT	YLW PLCC2	Kingbright	AA3528SYSK	754-1539-2-ND
100275	LED RGB PLCC4 TOP CLEAR	D9, D10, D11, D12	4	SMT	RGB PLCC4			
100224	MCU ATMEL SAM3U2 LQFP100	U1, U2	2	SMT	ATSAM3U2CA-AU	Atmel	ATSAM3U2CA-AU	ATSAM3U2CA-AU-ND
100220	MOSFET N-CH 20V 1A SOT323	Q2, Q3, Q4, Q5, Q6, Q7, Q8	7	SMT	DMG1012UW-7	Diodes Incorporated	DMG1012UW-7	DMG1012UW-7DICT-ND
100081	RES 150 OHM 1/10W 1% 0603 SMD	R15, R23, R24, R67	4	NNP	150R NNP	Rohm	MCR03EZP1J51	RHM150GCT-ND
100075	RES 0.0 OHM 1/10W 1% 0603 SMD	R13, R47, R48, R56, R57, R60, R61, R64	8	SMT	0R	Vishay	CRCW06030000Z0EA	541-0.0GTR-ND
100075	RES 0.0 OHM 1/10W 1% 0603 SMD	R39, R40, R41, R62, R63	5	NNP	0R NNP	Vishay	CRCW06030000Z0EA	541-0.0GTR-ND
100078	RES 100K OHM 1/10W 1% 0603 SMD	R2, R4, R5, R6, R33, R34, R35, R36, R42, R43	10	SMT	100k	Yageo	RC0603FR-07100KL	311-100KHRTR-ND
100079	RES 10K OHM 1/10W 1% 0603 SMD	R1, R9, R17, R44, R45, R46, R52, R58	8	SMT	10k	Vishay	CRCW060310K0FKEA	RHM100KGCT-ND
100081	RES 150 OHM 1/10W 1% 0603 SMD	R16, R21, R22, R25, R26, R27, R28, R29, R30, R31, R32, R37, R38, R49, R50, R51, R54, R66, R68, R69, R70, R71	22	SMT	150R	Rohm	MCR03EZP1J51	RHM150GCT-ND
100093	SWITCH TACT 260GF H=5.0MM SMT	S3	1	NNP	TL3301 NNP	E-Switch	TL3301AF260QG	EG2527CT-ND
100084	RES 3.6K OHM 1/10W 5% 0603 SMD	R7, R8	2	SMT	3.6k	Rohm	MCR03EZP3J62	RHM3.6KGCT-ND
100098	RES 390 OHM 1/10W 1% 0603	R10, R18, R19, R20, R59	5	SMT	390R	Yageo	RC0603FR-07390RL	311-390HRTR-ND
100228	RES 39R OHM 1/10W 1% 0603 SMD	R11, R12, R53, R55	4	SMT	39R	Panasonic	ERJ-3EKF39R0V	P39.0HTR-ND
100229	RES 6.80K OHM 1/10W 1% 0603 SMD	R14, R65	2	SMT	6.8k	Yageo	RC0603FR-076K8L	311-6.80KHRTR-ND
100087	RES 698K OHM 1/10W 1% 0603 SMD	R3	1	SMT	698k	Yageo	RC0603FR-07698KL	311-698KHRCT-ND
100227	STANDOFF 1206 MECHANICAL COMPONENT H = 1.6MM	C44, C45	2	SMT	XuF 1206			
100186	SWITCH SLIDE DPDT 6VDC 0.3A SMT	S1	1	SMT	JS202011SCQN	C&K	JS202011SCQN	401-2002-2-ND
100093	SWITCH TACT 260GF H=5.0MM SMT	S4, S5, S6, S7	4	SMT	TL3301	E-Switch	TL3301AF260QG	EG2527CT-ND
100214	SWITCH TACTILE SPST-NO 0.05A 32V	S2	1	SMT	KMR421G	C&K	KMR421G LFS	CKN10249CT-ND
	CRYSTAL 32.768KHZ 12.5pF 8x4mm SMT	X5	1	NNP	32.768kHz NNP	Citizen	CM2005-32.768KDZF	
100187	TRIMPOT 10K OHM 0.1W SMD WITH STOP	R72	1	SMT	TC33-2 10k	Bourns	TC33X-2-103E	TC33X-103ECT-ND