

Bill of Materials

TI DESIGNS

Qty	Value	Digikey #	Description	Eagle Library Package	Board Designator
1	24C02CSN	24LC02B-I/SN-ND	IC EEPROM 2KBIT 400KHZ 8S	24C02CSN	IC1
1	32.768 KHZ	300-8341-1-ND	CRYSTAL 32.768 KHZ 6PF SM	LF Crystal	XT1
2	12pF	311-1059-1-ND	CAP CER 12PF 50V 5% NPO 0	C-EUC0603	C37 C40
7	15n	311-1143-1-ND	CAP CER 0.015UF 50V 10% X	C-EUC0805	C8 C10 C12 C15 C17 C19 C21
12	100nF	311-1343-1-ND	CAP CER 0.1UF 50V Y5V 0603	C-EUC0603	C23 C25 C27 C28 C30 C31 C33 C36 C43
7	0.1uF	311-1343-1-ND	CAP CER 0.1UF 50V Y5V 0603	C-EUC0603	C41 C42 C52 C53 C54 C57 C59
2	0.47uF	311-1428-1-ND	CAP CER 0.47UF 16V 10% X7	C-EUC0603	C38 C44
8	4.7uF	311-1455-1-ND	CAP CER 4.7UF 10V 10% X5R	C-EUC0603	C22 C24 C26 C29 C32 C34 C35 C51 C49
14	47p	311-1484-1-ND	CAP CER 47PF 500V 5% NPO	C-EUC0805	C1 C2 C3 C4 C5 C6 C7 C9 C11 C13 C14 C16 C18 C20
1	10uF	399-3685-1-ND	CAP TANT 10UF 6.3V 20% 120	CPOL-USCT3216	C55 C56 C58
1	4.7u/400V	399-6097-ND	CAP ALUM 4.7UF 400V 20% R	CPOL-USE5-10.5	C100
8	-	3M9447-ND	CONN HEADER VERT SGL 2P	JP1E	ACT JP2 JP11 JP12 REACT RX_EN TX_EN HD1
8	-	3M9448-ND	CONN HEADER VERT SGL 3P	JP2E	JP3 JP4 JP5 JP6 JP7 JP8 JP9 JP10 AUXVCC3
8	-	961105-6404-AR	CONN HEADER VERT SGL 5P	MA05-1	SV2
3	-	3M9449-ND	CONN HEADER VERT SGL 4P	MA04-1	DGND DVCCs
1	-	A106735-ND	CONN HEADER VERT DUAL 4	JP2Q	SV1
8	0	RMCF0805ZT0R00CT-ND	RES 0.0 OHM 1/8W 0805 SMD	RES0805	R/L7 R/L8 R/L9 R/L10 R/L11 R/L12 R/L13 R/L14
4	S20K275	495-1417-ND	VARISTOR 275V RMS 20MM F	S20K275	R1 R2 R3
2	Orange	511-1245-ND	LED 3.1MM 610NM ORANGE TR	LED3MM	LED_3 LED_4
2	Green	511-1247-ND	LED 3.1MM 563NM GREEN TR	LED3MM	LED_1 LED_6
2	Red	511-1249-ND	LED 3.1MM 650NM RED TRAN	LED3MM	LED_ACT LED_REACT
2	Yellow	511-1251-ND	LED 3.1MM 585NM YELLOW TR	LED3MM	LED_2 LED_5
32	PMLL4148	568-1749-1-ND	DIODE SW GPP 75V 200MA S	PMLL4148	D28 D29 D30 D31 D32 D33 D34 D35 D36 D37 D38 D39 D40 D41 D42 D43 D44
2	BC857BSMD	568-6094-1-ND	TRANSISTOR PNP 45V 100MA	BC857BSMD	Q1 Q2
1	TFBS4711-TT1	751-1068-1-ND	TXRX IRDA 115.2KBIT 1.9MM	TFBS4711-TT1	IRDA
1	-	A32036-ND	CONN D-SUB RCPT STR 9PO	F09VP	RS1
4	LL103A	LLSD103ADICT-ND	DIODE SCHOTTKY 40v 350MV	D-SOD-80	D24 D25 D26 D27
1	-	MHC14K-ND	CONN HEADER 14 POS STRC	ML14	JTAG
6	EXCML20A	P10191CT-ND	BEAD CORE 4A 100 MHZ 0805	EXCELSA390805	L1 L3 L5 L6
1	150uF	P14374-ND	CAP ALUM 150UF 10V 20% R	CPOL-EUE2-5	C101
4	-	P8079SCT-ND	SWITCH TACTILE SPST-NO 0	PB	BTN1 BTN2 BTN3 BTN4 RESET
2	TIL191	PS2501-1A-ND	OPTOCOUPLER 1CH TRANS	TIL191	OPTO1 OPTO2
2	PS8802	PS8802-1-F3-AXCT-ND	OPTOISOLATOR ANALOG HS	PS8802	U1 U2
1	68	RMCF0603FT68R0CT-ND	RES TF 68 OHM 1% 0.1W 060	R-EU_R0603	R65
8	100	RMCF0603JT100RCT-ND	RES 100 OHM 1/10W 5% 0603	R-EU_R0603	R54 R55 R56 R57 R58 R59 R60 R61
2	1k	RMCF0603JT1K00CT-ND	RES 1K OHM 1/10W 5% 0603	R-EU_R0603	R62 R68 R72 R78
1	1.5k	RMCF0603JT1K50CT-ND	RES 1.5K OHM 1/10W 5% 060	R-EU_R0603	R67

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1	220	RMCF0603JT220RCT-ND	RES 220 OHM 1/10W 5% 0603	R-EU_R0603	R64
2	2.2k	RMCF0603JT2K20CT-ND	RES 2.2K OHM 1/10W 5% 0603	R-EU_R0603	R69 R71
1	330	RMCF0603JT330RCT-ND	RES 330 OHM 1/10W 5% 0603	R-EU_R0603	R48
1	47K	RMCF0603JT47K0CT-ND	RES 47K OHM 1/10W 5% 0603	R-EU_R0603	R51
1	47	RMCF0603JT47R0CT-ND	RES 47 OHM 1/10W 5% 0603	R-EU_R0603	R47
18	0	RMCF0603ZT0R00CT-ND	RES 0.0 OHM 1/10W 0603 SMD	R-EU_R0603	R73 R74 R75 R76 R77 R79 R80 R81 R82 R83 R84 R85 R86 R87 R88 R89 R90 R91
5	560k	RMCF0805FT560KCT-ND	RES TF 560K OHM 1% 0.125W	R-EU_R0603	R42 R43 R46
4	100K	RMCF0805JT100KCT-ND	RES 100K OHM 1/8W 5% 0805	R-EU_R0603	R49 R50 R52 R53
3	10k	RMCF0805JT10K0CT-ND	RES 10K OHM 1/8W 5% 0805	R-EU_R0603	R40 R41 R63
1	10R	RMCF0805JT10R0CT-ND	RES 10 OHM 1/8W 5% 0805 SMD	RES0805	R36
14	1k	RMCF0805JT1K00CT-ND	RES 1.0K OHM 1/8W 5% 0805	RES0805	R14 R16 R18 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34
3	2K37	RMCF0805FT2K37CT-ND	RES 2.37K OHM 1/8W 1% 0805	RES0805	R15 R17 R19
9	330k	RMCF0805JT330KCT-ND	RES 330K OHM 1/8W 5% 0805	RES0805	R5 R6 R7 R8 R9 R10 R11 R12 R13
4	13	RMCF0805FT13R0CT-ND	RES 13 OHM 1/8W 1% 0805 SMD	R-US_R0805	R20 R21 R22 R23
1	0	RMCF0805ZT0R00CT-ND	RES 0.0 OHM 1/8W 0805 SMD	RES0805	R4 R39 R99 R100 R101 R102 R103
2	-	Must Order From Samtec	CONN HEADER 20POS 1.27MM	TFM-110-02-SM-D-A-K	RF1 RF2
1	SMAJ5.0ABCT	SMAJ5.0ABCT-ND	DIODE TVS 5.0V 400W UNI 5%	DIODE-DO214AC	ZD3
4	SMAJ5.0CA	SMAJ5.0CABCT-ND	DIODE TVS 5.0V 400W BI 5%	SMAJ5.0CA	TVS1 TVS2 TVS3 TVS4
1	SL127L6TH		Mill-Max 850-10-006-20-001000	SL127L6TH	EZ-RF
1	TI_160SEG_LCD	Will be Provided by TI		TI_160SEG_LCD	LCD1
	DNP			R-EU_R0603	R44 R45
	DNP			DNP	C63
1	DNP			R-EU_R0603	R66
1	DNP			R-EU_R0603	R70
1	CUI_XR	102-1801-ND	olated Power Supply, 3.3 V, 700	CUI_XR	U\$1
1	MSP430F6779IPEU	Will be Provided by TI		MSP430F6779	
1	100uF	1189-1020-ND	CAP Electrolytic 100uF 100V 20mm x 20 mm, 5 mm leads		C102
3	0.22uF	495-2320-ND	CAP poly 0.22uF 305VAC/630V 18 mm x 7 mm, 15 mm leads		C39,C46,C50
1	2.2uF	445-4497-2-ND	CAP Ceramic 2.2uF 100V X7R 1210		C48
1	0.01uF	445-5100-1-ND	CAP CER 10000PF 25V 10% 0603		C45
1	47uF	587-1383-1-ND	CAP Ceramic 47uF 10V X5R 1210		C62
1	0.1uF	399-1095-1-ND	CAP Ceramic 0.1uF 10V X5R 0603		C47
1	.056uF	490-6433-1-ND	CAP Ceramic .056uF 25V X7R 0603		C60
1	100pF	399-6841-1-ND	CAP Ceramic 100pF 25V NPO 0603		C61
1	B160	641-1107-1-ND	Diode Schottky 1A 60V B160 SMB		D23
3	48V	1N4757ADICT-ND	Diode Zener 51V 1W 1N4757A DO-41		D17,D19,D21
3	1N4007	1N4007FSCT-ND	DIODE GEN PURPOSE 1000V DO-41		D18,D20,22
1	1mH	Must order from CoilCraft (M	Inductor, SMT, MSS1038-105 0.402 x 0.394 inch		L7
1	1M	A102234CT-ND	RES 1M OHM 1/16W 1% 0603		R35,R38
1	33.2k	RNCS0603BKE33K2CT-ND	RES 33.2K OHM 1/16W .1% 0603		R37
1	22.1k	A102241CT-ND	RES 22.1K OHM 1/16W 1% 0603		R95
1	51.1	A102292TR-ND	RES 51.1 OHM 1/16W 1% 0603		R96
1	31.6k	A102261DKR-ND	RES 31.6K OHM 1/16W 1% 0603		R97
1	10.0k	A102331CT-ND	RES 10.0K OHM 1/16W 0.1% 0603		R98
3	100	P100W-2BK-ND	RES 100 OHM 2W 5% AXIAL 12 mm length, 4 mm diameter		R92,R93,R94
1	TPS54060ADGQ	296-30339-5-ND	IC REG BUCK ADJ 0.5A 10MS MSOP-10		U3

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