



Bill of Materials

TI DESIGNS

TIDA-00100

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
!PCB1	1		Printed Circuit Board		ISE4002	Any
C1, C15	2	1uF	CAP, CERM, 1uF, 6.3V, +/-20%, X5R, 0402	0402	C1005X5R0J105M	TDK
C2, C3, C4, C5, C7	5	0.1uF	CAP, CERM, 0.1uF, 10V, +/-10%, X7R, 0402	0402	GRM155R71A104KA01D	MuRata
C6	1	220pF	CAP, CERM, 220pF, 50V, +/-5%, C0G/NP0, 0402	0402	GRM1555C1H221JA01D	MuRata
C8	1	2.2uF	CAP, CERM, 2.2uF, 6.3V, +/-20%, X5R, 0402	0402	JMK105BJ225MV-F	Taiyo Yuden
C9, C13	2	1pF	CAP, CERM, 1pF, 50V, +/-5%, C0G/NP0, 0402	0402	GRM1555C1H1R0CA01D	MuRata
C10	1	0.4pF	CAP, CERM, 0.4pF, 50V, +/-25%, C0G/NP0, 0402	0402	GRM1555C1HR40BA01D	MuRata
C11, C12	2	18pF	CAP, CERM, 18pF, 50V, +/-5%, C0G/NP0, 0402	0402	GRM1555C1H180JA01D	MuRata
C14, C16	2	15pF	CAP, CERM, 15pF, 50V, +/-5%, C0G/NP0, 0402	0402	GRM1555C1H150JA01D	MuRata
C17, C18	2	12pF	CAP, CERM, 12pF, 50V, +/-5%, C0G/NP0, 0402	0402	GRM1555C1H120JA01D	MuRata
C19	1	1000pF	CAP, CERM, 1000pF, 50V, +/-5%, C0G/NP0, 0402	0402	GRM1555C1H102JA01D	MuRata
C20, C24	2	4.7uF	CAP, CERM, 4.7uF, 10V, +/-10%, X5R, 0805	0805	C0805C475K8PACTU	Kemet
C21, C25	2	0.1uF	CAP CER 0.1UF 6.3V 10% X5R 0603	0603 (1608 Metric)	06036D104KAT2A	AVX Corporation
C22	1	0.01uF	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H103KA01D	MuRata
C23, C26, C27, C28	4	1.0uF	CAP CER 1UF 10V 20% X5R 0603	0603 (1608 Metric)	GRM188R61A105MA61D	Murata Electronics North America
C29	1	8000 uF	Supercapacitors / Ultracapacitors 5.5Volts 8uF FLAT LEADS		CLG05P008F12	Cellergy
D1, D10	2	5V	Diode, Schottky, 5V, 0.03A, SOD-323	SOD-323	1SS315TPH3F	Toshiba
D2	1	Yellow	LED, Yellow, SMD	Yellow LED	SML-P12YTT86	Rohm
D3, D4, D5, D6, D7, D8, D9	7		ESD in 0402 Package with 10 pF Capacitance and 6 V Breakdown, 1 Channel, -40 to +125 degC, 2-pin X2SON (DPY), Green (RoHS & no Sb/Br)	DPY0002A	TPD1E10B06DPYR	Texas Instruments
FB1	1	1000 ohm	0.25A Ferrite Bead, 1000 ohm @ 100MHz, SMD	0402	BLM15HG102SN1D	MuRata
J1	1		Header, 50mil, 5x2, R/A, SMT	Header, 50mil, 5x2, Gold	FTSH-105-01-F-DH	Samtec
J2	1		Header, 100mil, 2x1, Tin plated, TH	Header, 2 PIN, 100mil, Tin	PEC02SAAN	Sullins Connector Solutions

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J3, J5	2		Header, 100mil, 3x1, Tin plated, TH	Header, 3 PIN, 100mil, Tin	PEC03SAAN	Sullins Connector Solutions
J4	1		TERMINAL BLOCK 3.5MM 2POS PCB	3.5mm 2POS	ED555/2DS	On Shore Technology Inc
R9	1	56.2k	RES, 56.2k ohm, 1%, 0.063W, 0402	0402	CRCW040256K2FKED	Vishay-Dale
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9	9	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone
U1	1		2.4-GHz Bluetooth low energy and Proprietary System-on-Chip, RHA0040H	RHA0040H	CC2541RHA	Texas Instruments
X2	1		Crystal, 32MHz, 10pF, SMD	Crystal, 2.6x0.5x1.6mm	Q22FA1280009200	Epson
Z1	1		PHOTOVOLTAIC SOLAR CELL	-	CBC-PV-01N	Cymbet Corporation
FID1, FID2, FID3	0		Fiducial mark. There is nothing to buy or mount.	Fiducial	N/A	N/A

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.