

Bill of Materials

TI DESIGNS

TIDA-00721

ltem	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	1	!PCB		Printed Circuit Board	Any	SV601256			
2	1	C1	0.47uF	CAP, CERM, 0.47 μF, 16 V, +/- 10%, X5R, 0402	MuRata	GRM155R61C474KE01		0402	
3	1	C2	1uF	CAP, CERM, 1 μF, 25 V, +/- 10%, X5R, 0402	MuRata	GRM155R61E105KA12D		0402	
4	3	C3, C8, C10	0.1uF	CAP, CERM, 0.1 μF, 25 V, +/- 10%, X5R, 0402	MuRata	GRM155R61E104KA87D		0402	
5	1	C5	39pF	CAP, CERM, 39 pF, 25 V, +/- 5%, C0G/NP0, 0402	MuRata	GRM1555C1E390JA01D		0402	
6	1	C6	100uF	CAP, CERM, 100 μF, 10 V, +/- 20%, X5R,	TDK	C3216X5R1A107M160A		1206_190	
7	1	C9	2200pF	CAP, CERM, 2200 pF, 16 V, +/- 10%, X7R, 0402	MuRata	GRM155R71C222KA01D		0402	
8	1	C12	1000pF	CAP, CERM, 1000 pF, 25 V, +/- 10%, X5R, 0402	MuRata	GRM155R61E102KA01D		0402	
9	2	D1, D2	35V	Diode, Schottky, 35 V, 0.1 A, SOD-523F	Comchip Technology	CDBU0130L		SOD-523F	
10	3	R1, R4, R7	0	RES, 0, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04020000Z0ED		0402	
11	2	R2, R3	4.7k	RES, 4.7 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04024K70JNED		0402	
12	1	R6	33k	RES, 33 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW040233K0JNED		0402	
13		U1		16 MHz Mixed Signal Microcontroller with 8 KB Flash, 512 B SRAM and 24 GPIOs, -40 to 85 degC, 32-pin QFN (RHB), Green (RoHS & no Sb/Br)	Texas Instruments	MSP430G2403IRHB32R		RHB0032E	
14	1	U2		DYNAMIC NFC INTERFACE TRANSPONDER, RGT0016C	Texas Instruments	RF430CL330HIRGTR		RGT0016C	
15	1	U3		Ultra-Small, Low-Power, 16-Bit Analog-to-Digital Converter with Internal Reference, DGS0010A	Texas Instruments	ADS1113IRUGR		RUG0010A	
16	1	U4		±0.1°C Precision Analog Temperature Sensor, RTD and Precision NTC Thermistor IC, YFQ0004ACAC	Texas Instruments	LMT70YFQR		YFQ0004ACAC	
17	0	C4, C7	12pF	CAP, CERM, 12 pF, 25 V, +/- 5%, C0G/NP0, 0402	MuRata	GRM1555C1E120JA01D		0402	
18	0	Y1		Crystal, 32.768kHz, 12.5pF, SMD	Epson	FC-12M 32.7680KA-A3		Crystal 2.05x.6x1.2mm	
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