

4.2 Bill of Materials

QTY	Designator	Description	Part Number
2	C1, C2	CAP, CERAM, 0.068µF, 25V, +/-10%, X7R, 0603	GRM188R71F683KA01D
1	C3	CAP, CERAM, 0.047µF, 25V, +/-5%, X7R, 0603	06033C473JAT2A
1	C14	CAP, CERAM, 10µF, 16V, +/-20%, X5R, 0603	EMK107BBJ106MA-T
1	C5	CAP, CERAM, 100pF, 25V, +/-10%, X7R, 0201	GRM033R71E101KA01D
1	C15	CAP, CERAM, 0.47 µF, 6.3 V, +/- 10%, X5R, 0402	GRM155R60J474KE19D
2	C6, C21, C23	CAP, CERAM, 4.7 µF, 10V, +/- 20%, X5R, 0402	GRM155R61C475ME11D
1	C17, C18, C27	CAP, CERAM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	GRM155R71C104KA88D
2	C10, C11	CAP, CERAM, 0.01µF, 25V, +/-10%, X7R, 0402	GRM155R71E103KA01D
2	C8, C13	CAP, CERAM, 0.022µF, 25V, +/-10%, X7R, 0402	GRM155R71F223KA61D
1	C4	CAP, CERAM, 1800 pF, 50 V, +/- 10%, X7R, 0402	GRM155R71H182KA01D
2	C16, C26	CAP, CERAM, 4.7µF, 16V, +/-10%, X5R, 0603	GRM188R61C475KAAJ
2	C9, C12	CAP, CERAM, 0.47µF, 25V, +/-10%, X7R, 0603	GRM188R71E474KA12D
1	D4	LED, Red, SMD	LTST-C190CKT
1	D3	LED, Green, SMD	LTST-C191KGKT
3	C7, C19, C20	CAP, CERAM, 10 µF, 10 V, +/- 20%, X5R, 0402	CI05A106MP5NUNC
3	FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount	Fiducial
1	J1	Receptacle, Micro-USB-B, Right Angle, SMD	1050170001
1	J3	Header (friction lock), 100mil, 4x1, R/A, TH	640457-4
1	Q1	MOSFET, P-CH, -20 V, -1.6 A,	CSD75208W1015
1	Q2	MOSFET, N-CH, V, A,	CSD83325L
2	L1, L2	Inductor, Multilayer, 2.2 µH, 1.35 A, 0.23 ohm, SMD	MDT2012-CLR2R2AM
1	R1	RES, 804, 1%, 0.05 W, 0201	CRCW0201845REKED
1	R2	RES, 196, 1%, 0.05 W, 0201	CRCW0201196REKED
1	R3, R4, R6	RES, 10k, 5%, 0.05 W, 0201	ERJ-1GEJ103C
7	R5, R9, R10, R15, R30, R31, R32	RES, 20.0 k, 1%, 0.05 W, 0201	CRCW020120K0FKED
1	R11, R28	RES, 1M, 5%, 0.05 W, 0201	ERJ-1GEF1004C
1	R13	RES, 14.0K, 1%, 0.05 W, 0201	ERJ-1GEF1402C
1	R14	RES, 14.3K, 1%, 0.05 W, 0201	ERJ-1GEF1432C
1	R29	RES, 71.5K, 1%, 0.05 W, 0201	ERJ-1GEF7152C
1	R19	RES, 2.2K, 1%, 0.05 W, 0201	ERJ-1GEJ222C
2	R20, R21	RES, 5.1M, 5%, 0.05 W, 0201	ERJ-1GEJ515C
1	R22	RES, 330 Ohm, 5%, 0.05 W, 0201	ERJ-1GEJ331C
4	R17, R16, R24, R25	RES, 510 Ohm, 5%, 0.05 W, 0201	ERJ-1GEJ511C
1	R26	RES, 0.56, 5%, 0.05 W, 0201	UCR006YV/PFI R560
1	S1	SWITCH TACTILE SPST-NO 0.05A 32V	732-7045-1-ND
1	TP1	Test Point, Miniature, Orange, TH	5003K-ND
3	TP2, TP3, TP4	Test Point, Compact, Red, TH	5005K-ND
0	TP5, TP6	Test Point, Compact, Black, TH	5006K-ND
1	U1	Highly Integrated Wireless Receiver Qi (WPC v1.1) Compliant Power Supply_YEP0028APAI	BQ51003YFPR
1	U2	System-Side Impedance Track Fuel Gauge With Integrated Sense Resistor_YZF0009AKAI	BQ27421YZFR-G1B
1	U3	YEF0025AWAW	BQ25120YEP
1	U4	Cost-Effective Voltage and Current Protection Integrated Circuit for Single-Cell Li-Ion/Li-Polymer Batteries_DSE0006A	BQ29702DSER
1	U6	28-V Output Voltage Boost Converter in WQSP Package_YFF0006AAAA	TPS61046YFFR

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