

PWR520C

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
IPC	1		Printed Circuit Board		PWR520	Anv		
C1	1	0.1uF	CAP_CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	C0603C104K5RACU	Kemet		
C2	1	0.056uF	CAP_CERM, 0.056uF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H563KA93D	MuRata		
C3	1	0.082uF	CAP_CERM, 0.082uF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H823KA93D	MuRata		
C4	1	2700pF	CAP_CERM, 2700pF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H272KA01D	MuRata		
C5	1	100pF	CAP_CERM, 100pF, 50V, +/-10%, X7R, 0402	0402	CC0402KRX7R9BB101	Yageo America		
C6	1	0.1uF	CAP_CERM, 0.1uF, 50V, +/-10%, X7R, 0402	0402	C1005X7R1H104K050BB	TDK		
C7	1	3.3uF	CAP_CERM, 3.3uF, 25V, +/-10%, X5R, 0603	0603	C1608X5R1E335K080AC	TDK		
C8, C13	2	0.082uF	CAP_CERM, 0.082uF, 25V, +/-10%, X7R, 0603	0603	GRM188R71E823KA01D	MuRata		
C9, C12	2	0.47uF	CAP_CERM, 0.47uF, 25V, +/-10%, X5R, 0603	0603	GRM188R61E474KA12D	MuRata		
C10, C11	2	0.015uF	CAP_CERM, 0.015uF, 50V, +/-10%, X7R, 0402	0402	GRM155R71H153KA12D	MuRata		
C14, C15	2	100pF	CAP_CERM, 100pF, 25V, +/-10%, X5R, 0805	0805	C2012X5R1E106K125AB	TDK		
C16, C19	2	0.1uF	CAP_CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	GCM188R71H104KA57B	MuRata		
C17	1	1uF	CAP_CERM, 1uF, 50V, +/-10%, X7R, 0805	0805	GRM21BR71H105KA12L	MuRata		
C18	1	0.1uF	CAP_CERM, 0.1uF, 16V, +/-10%, X7R, 0402	0402	GRM155R71C104KA85D	MuRata		
C20	1	1uF	CAP_CERM, 1uF, 25V, +/-10%, X7R, 0603	0603	GRM188R71E105KA12D	MuRata		
C21	1	2.2uF	CAP_CERM, 2.2uF, 16V, +/-10%, X5R, 0603	0603	GRM188R61C225KE15D	MuRata		
D3	1	Green	LED, Green, SMD	1.6x0.8x0.8mm	LTST-C190GKT	Lite-On		
D4	1	5.1V	Diode, Zener, 5.1V, 300mW, SOD-523	SOD-523	BZT52CV1T-7	Diodes Inc.		
H1	1		Tape segment, Low Static Polyimide Film. Cut tape section from 36 yard roll	1.5" x 2.3"	5419-1 1/2"	3M		
H2	1		Case Modified Polycase LP-11B with 4 screws		J-6838A	Polycase		
H3	1		Coil, RX with Attractor		760308102210	Würth		
H4, H5, H6, H7	4		#4 x 3/8" pan head phillips screw	#4 x 3/8"	PSMS 004 0038 PH	B&F Fastener		
H8, H9, H10, H11	4		Spacer, 0.100" Thk x 0.25" OD x 0.147" ID	0.1" THK	905-100	Bivar		
J1	1		Receptacle, Micro-USB-B, Right Angle, SMD	Micro USB receptacle	105017-0001	Molex		
J2	1		Connector, 100mil Shrouded, High-Temperature, Gold, TH	5x2 Shrouded header	N2510-6002-RB	3M		
J3, J4	2		Header, 100mil, 2x1, Tin plated, TH	Header, 2 PIN, 100mil, Tin	PEC02SAAN	Sullins Connector Solutions		
JP1, JP2	2		Header, 100mil, 3x1, Tin plated, TH	Header, 3 PIN, 100mil, Tin	PEC03SAAN	Sullins Connector Solutions		
LBL1, LBL2	2		Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W	THT-14-423-10	Brady		
Q1	1	-20V	MOSFET, P-CH, -20V, -1.2A, 2x3 DSBGA	2x3 DSBGA	CSD75301W1015	Texas Instruments		None
R1	1	56.2k	RES, 56.2k ohm, 1%, 0.063W, 0402	0402	CRCW040256K2FKED	Vishay-Dale		
R2	1	150	RES, 150 ohm, 5%, 0.063W, 0402	0402	CRCW0402150RJNED	Vishay-Dale		
R3	1	0	RES, 0 ohm, 5%, 0.063W, 0402	0402	CRCW0402000020ED	Vishay-Dale		
R4	1	110	RES, 110 ohm, 1%, 0.063W, 0402	0402	CRCW0402110RFKED	Vishay-Dale		
R6	1	500 Ohm	Trimmer, 500 ohm, 0.25W, TH	4.5x8x6.7mm	3266W-1-501LF	Bourns		
R8, R9	2	200	RES, 200 ohm, 1%, 0.1W, 0603	0603	CRCW0603200RFKFA	Vishay-Dale		
R10, R18	2	11.3k	RES, 11.3k ohm, 1%, 0.05W, 0201	0201	ERJ-1GEF1132C	Panasonic		
R11	1	10.0k	RES, 10.0k ohm, 1%, 0.063W, 0402	0402	CRCW040210K0FKED	Vishay-Dale		
R12	1	5.6Meg	RES, 5.6Meg ohm, 5%, 0.05W, 0201	0201	MCR006YRTJ565	Rohm		
R13	1	2.00k	RES, 2.00k ohm, 1%, 0.1W, 0603	0603	RC0603FR-072KL	Yageo America		
R14, R17, R19	3	102k	RES, 102k ohm, 1%, 0.05W, 0201	0201	ERJ-1GEF1023C	Panasonic		
R20	1	1.50k	RES, 1.50k ohm, 1%, 0.1W, 0603	0603	CRCW06031K50FKFA	Vishay-Dale	Equivalent	Any
R22	1	102k	RES, 102k ohm, 1%, 0.063W, 0402	0402	CRCW0402102KFKED	Vishay-Dale		
SH-JP1, SH-JP2	2	1x2	Shunt, 100mil, Gold plated, Black	Shunt	969102-0000-DA	3M	SNT-100-BK-G	Samtec
TP3, TP4, TP5	3	White	Test Point, TH, Miniature, White	Keystone5002	5002	Keystone		
U1	1		DUAL MODE (Qi and PMA) INTEGRATED WIRELESS RECEIVER POWER SUPPLY, YFP0042AWCG	YFP0042AWCG	bq51221YFP	Texas Instruments		None
C22	0	100pF	CAP_CERM, 100pF, 50V, +/-10%, X7R, 0402	0402	CC0402KRX7R9BB101	Yageo America		
D1	0	Green	LED, Green, SMD	1.6x0.8x0.8mm	LTST-C190GKT	Lite-On		
D2	0	Orange	LED, Orange, SMD	1.6x0.8x0.8mm	LTST-C190KFKT	Lite-On		
FID1, FID2, FID3	0		Fiducial mark. There is nothing to buy or mount.	Fiducial	N/A	N/A		
J5	0		Header, 100mil, 2x1, Tin plated, TH	Header, 2 PIN, 100mil, Tin	PEC02SAAN	Sullins Connector Solutions		
JP3, JP4	0		Header, 100mil, 3x1, Tin plated, TH	Header, 3 PIN, 100mil, Tin	PEC03SAAN	Sullins Connector Solutions		
R5	0	5 K	Trimmer, 5k ohm, 0.25W, TH	4.5x8x6.7mm	3266W-1-502LF	Bourns		
R7	0	1.50k	RES, 1.50k ohm, 1%, 0.1W, 0603	0603	CRCW06031K50FKFA	Vishay-Dale	Equivalent	Any
R15	0	20k	RES, 20k ohm, 5%, 0.063W, 0402	0402	CRCW040220K0JNED	Vishay-Dale		
R16	0	5.11k	RES, 5.11k ohm, 1%, 0.1W, 0603	0603	CRCW06035K11FKFA	Vishay-Dale		
R21	0	27k	RES, 27k ohm, 5%, 0.1W, 0603	0603	CRCW060327K0JNEA	Vishay-Dale		
SH-JP3, SH-JP4	0	1x2	Shunt, 100mil, Gold plated, Black	Shunt	969102-0000-DA	3M	SNT-100-BK-G	Samtec
TP1, TP2	0	Black	Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone		
TP6	0	White	Test Point, Miniature, White, TH	White Miniature Testpoint	5002	Keystone		

Notes:

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