

SPB820P Parts List

1 SPB820P Bill of Material

Note:

SPB820P-B with on board Chip Antenna

SPB820P-D with U.FI. RF connector for external antenna

Comp	Part name	HW Version	MFG nr	Description
A1	UWL821 R3A	All		Printed circuit board
C1, C2, C4	1.0UF 0402 X5R 6.3V	All	GRM155R60J105KE19D	GRM15 Series Chip Monolithic Ceramic Capacitor
C3, C6,	0.1UF 0402 X7R 16V 10%	All	GRM155R71C104KA88D	GRM15 Series Chip Monolithic Ceramic Capacitor
C7	10UF 0603 X5R 6.3V	All	GRM188R60J106ME47J	GRM18 Series Chip Monolithic Ceramic Capacitor
C8	1.2PF 0201 COG 25V	All	GRM0335C1H1R2BA01	GRM03 Series Chip Monolithic Ceramic Capacitor
C11	5.6PF 0201 COG 25V	SPB820P-B	GRM0335C1E5R6CA01J	GRM03 Series Chip Monolithic Ceramic Capacitor
C9	5.6PF 0201 COG 25V	SPB820P-D	GRM0335C1E5R6CA01J	GRM03 Series Chip Monolithic Ceramic Capacitor
L1	3.3UH 1008 20% LQM2HP	All	LQM2HPN3R3MG0	Murata Monolithic Type Chip Coil
L5	1N0 0201 0.1NH LQP03T	All	LQP03TN1N0B02	Murata LQP03T-04 Series Film type Chip Coil
R3	0R 0402	All	RC0402JR-070RL	Chip resistor 0.063W
R4	100K 0402 1%	All	RC0402FR-07100KL	Chip resistor 0.063W
S1	SHIELD BOX SPB4100	All		EMC Shield
T1	IRLML5203GPBF SMD SOT-23	All	IRLML5203GPBF	International Rectifier P-Channel MOSFET
U1	HDG200 MODULE	All	HDG200	H&D Wireless WiFi SIP
U2	LM809M3-2.63 SOT23	All	LM809M3-2.63	National Microprocessor reset circuit
X1	ALA931C5 SMD	SPB820P-B	ALA931C5	Amotech multilayer chip antenna 2.4 GHz
P2	U.FL-R-SMT-01	SPB820P-D	331-0471-0-01	Hirose RF Receptacle 331-0471-0-01