

Product BOM Sheet				
Item	Part Number	Part Description	Quantity	Designator (Top)
1	RC0201JR-070RL	RES MF 0R +/-5% 1/20W CH0201 RO	24	R106 R301 R302 R401 R402 R403 R413 R507 R509 R510 R512 R513 R514 R515 R516 R517 R518 R520 R522 R523 R527 R529 R605 C610
	WR02X000PAL	RES MF 0R +/-5% 1/20W CH0201 RO		
	0201WMJ0000TEE	RES MF 0R +/-5% 1/20W CH0201 RO		
2	RC0201JR-0768RL	RES MF 68R +/-5% 1/20W CH0201 RO	2	C606 C607
	WR02X680JAL	RES MF 68R +/-5% 1/20W CH0201 RO		
	0201WMJ0680TCE/TEE	RES MF 68R +/-5% 1/20W CH0201 RO		
3	RC0201FR-07200RL	RES MF 200R +/-1% 1/20W CH0201 RO	1	R406
	WR02X2000FAL	RES MF 200R +/-1% 1/20W CH0201 RO		
	0201WMF2000TCE/TEE	RES MF 200R +/-1% 1/20W CH0201 RO		
4	RC0201JR-07220RL	RES MF 220R +/-5% 1/20W CH0201 RO	1	R505
	WR02X221JAL	RES MF 220R +/-5% 1/20W CH0201 RO		
	0201WMJ0221TCE/TEE	RES MF 220R +/-5% 1/20W CH0201 RO		
5	RC0201FR-07240RL	RES MF 240R +/-1% 1/20W CH0201 RO	3	R404 R405 R606
	0201WMF2400TCE/TEE	RES MF 240R +/-1% 1/20W CH0201 RO		
	WR02X2400FAL	RES MF 240R +/-1% 1/20W CH0201 RO		
6	RC0201JR-071KL	RES MF 1K +/-5% 1/20W CH0201 RO	2	R104 R506
	WR02X102JAL	RES MF 1K +/-5% 1/20W CH0201 RO		
	0201WMJ0102TCE/TEE	RES MF 1K +/-5% 1/20W CH0201 RO		
7	RC0201FR-0710KL	RES MF 10K +/-1% 1/20W CH0201 RO	1	R103
	0201WMF1002TCE/TEE	RES MF 10K +/-1% 1/20W CH0201 RO		
	WR02X1002FAL	RES MF 10K +/-1% 1/20W CH0201 RO		
8	RC0201JR-0710KL	RES MF 10K +/-5% 1/20W CH0201 RO	1	R303
	0201WMJ0103TCE/TEE	RES MF 10K +/-5% 1/20W CH0201 RO		
	WR02X103JAL	RES MF 10K +/-5% 1/20W CH0201 RO		
9	RC0201FR-0720KL	RES MF 20K +/-1% 1/20W CH0201 RO	1	R102
	WR02X2002FAL	RES MF 20K +/-1% 1/20W CH0201 RO		
	0201WMF2002TCE/TEE	RES MF 20K +/-1% 1/20W CH0201 RO		

10	RC0201JR-0720KL	RES MF 20K +/-5% 1/20W CH0201 RO	1	R411
	0201WMJ0203TCE/TEE	RES MF 20K +/-5% 1/20W CH0201 RO		
	WR02X203JAL	RES MF 20K +/-5% 1/20W CH0201 RO		
11	RC0201JR-07100KL	RES MF 100K +/-5% 1/20W CH0201 RO	2	R107 R610
	0201WMJ0104TCE/TEE	RES MF 100K +/-5% 1/20W CH0201 RO		
	WR02X104JAL	RES MF 100K +/-5% 1/20W CH0201 RO		
12	RC0402JR-070RL	RES MF 0R +/-5% 1/16W CH0402 RO	1	R602
	0402WGJ0000TCE	RES MF 0R +/-5% 1/16W CH0402 RO		
	WR04X000PTL	RES MF 0R +/-5% 1/16W CH0402 RO		
13	NCP15WF104F03RC	RES NTC 100K +/-1% B=4250 CH0402 RO	1	R608
14	CC0201BRNPO9BNR50	CAP C0G 0.5pF +/-0.1pF 50V CH0201 RO	3	C527 C528 C529
	RF03N0R5B500CT	CAP C0G 0.5pF +/-0.1pF 50V CH0201 RO		
	GRM0335C1HR50BA01D	CAP C0G 0.5pF +/-0.1pF 50V CH0201 RO		
15	CC0201BRNPO9BN1R0	CAP C0G 1.0pF +/-0.1pF 50V CH0201 RO	1	C602
	GRM0335C1H1R0BA01D	CAP C0G 1.0pF +/-0.1pF 50V CH0201 RO		
	0201N1R0B500CT	CAP C0G 1.0pF +/-0.1pF 50V CH0201 RO		
16	CC0201BRNPO9BN1R2	CAP C0G 1.2pF +/-0.1pF 50V CH0201 RO	1	C710
	GRM0335C1H1R2BA01D	CAP C0G 1.2pF +/-0.1pF 50V CH0201 RO		
	0201N1R2B500CT	CAP C0G 1.2pF +/-0.1pF 50V CH0201 RO		
17	CC0201CRNPO9BN1R5	CAP C0G 1.5pF +/-0.25pF 50V CH0201 RO	2	C508 C509
	0201N1R5C500CT	CAP C0G 1.5pF +/-0.25pF 50V CH0201 RO		
	GRM0335C1H1R5CA01D	CAP C0G 1.5pF +/-0.25pF 50V CH0201 RO		
18	CC0201BRNPO9BN1R5	CAP C0G 1.5pF +/-0.1pF 50V CH0201 RO	3	C510 C604 C605
	GRM0335C1H1R5BA01D	CAP C0G 1.5pF +/-0.1pF 50V CH0201 RO		
	0201N1R5B500CT	CAP C0G 1.5pF +/-0.1pF 50V CH0201 RO		
19	CC0201CRNPO9BN6R8	CAP C0G 6.8pF +/-0.25pF 50V CH0201 RO	1	C530
	GRM0335C1H6R8CA01D	CAP C0G 6.8pF +/-0.25pF 50V CH0201 RO		
	0201N6R8C500CT	CAP C0G 6.8pF +/-0.25pF 50V CH0201 RO		
20	CC0201JRNPO9BN100	CAP C0G 10pF +/-5% 50V CH0201 RO	2	C501 L504
	0201N100J500CT	CAP C0G 10pF +/-5% 50V CH0201 RO		
	GRM0335C1H100JA01D	CAP C0G 10pF +/-5% 50V CH0201 RO		
21	CC0201JRNPO9BN150	CAP C0G 15pF +/-5% 50V CH0201 RO	3	C707 C712 L510
	0201N150J500CT	CAP C0G 15pF +/-5% 50V CH0201 RO		
	GRM0335C1H150JA01D	CAP C0G 15pF +/-5% 50V CH0201 RO		

22	CC0201JRNPO9BN220	CAP C0G 22pF +/-5% 50V CH0201 RO	6	C608 C708 C709 C711 C713 C716
	GRM0335C1H220JA01D	CAP C0G 22pF +/-5% 50V CH0201 RO		
	0201N220J500CT	CAP C0G 22pF +/-5% 50V CH0201 RO		
23	CC0201JRNPO9BN330	CAP C0G 33pF +/-5% 50V CH0201 RO	1	C616
	GRM0335C1H330JA01D	CAP C0G 33pF +/-5% 50V CH0201 RO		
	0201N330J500CT	CAP C0G 33pF +/-5% 50V CH0201 RO		
24	CC0201JRNPO9BN390	CAP C0G 39pF +/-5% 50V CH0201 RO	1	C715
	0201N390J500CT	CAP C0G 39pF +/-5% 50V CH0201 RO		
	GRM0335C1H390JA01D	CAP C0G 39pF +/-5% 50V CH0201 RO		
25	CC0201JRNPO9BN101	CAP C0G 100pF +/-5% 50V CH0201 RO	4	C525 C526 C615 L503
	0201N101J500CT	CAP C0G 100pF +/-5% 50V CH0201 RO		
	GRM0335C1H101JA01D	CAP C0G 100pF +/-5% 50V CH0201 RO		
26	CC0201KRX7R8BB102	CAP X7R 1nF +/-10% 25V CH0201 RO	2	R503 C105
	0201B102K250CT	CAP X7R 1nF +/-10% 25V CH0201 RO		
	GRM033R71E102KA01D	CAP X7R 1nF +/-10% 25V CH0201 RO		
27	CC0201KRX5R6BB103	CAP X5R 10nF +/-10% 10V CH0201 RO	3	C101 C401 C517
	0201X103K100CT	CAP X5R 10nF +/-10% 10V CH0201 RO		
	GRM033R61A103KA01D	CAP X5R 10nF +/-10% 10V CH0201 RO		
28	CC0201KRX5R5BB104	CAP X5R 100nF +/-10% 6.3V CH0201 RO	20	C103 C107 C301 C303 C316 C317 C318 C326 C331 C335 C343 C402 C403 C512 C515 C516 C520 C521 C524 C706
	GRM033R60J104KE19D	CAP X5R 100nF +/-10% 6.3V CH0201 RO		
	0201X104K6R3CT	CAP X5R 100nF +/-10% 6.3V CH0201 RO		
29	CC0201KRX5R7BB104	CAP X5R 100nF +/-10% 16V CH0201 RO	1	C522
	GRM033R61C104KE84D	CAP X5R 100nF +/-10% 16V CH0201 RO		
	0201X104K160CT	CAP X5R 100nF +/-10% 16V CH0201 RO		
30	CC0201KRX5R6BB104	CAP X5R 100nF +/-10% 10V CH0201 RO	1	C614
	0201X104K100CT	CAP X5R 100nF +/-10% 10V CH0201 RO		
	GRM033R61A104KE15D	CAP X5R 100nF +/-10% 10V CH0201 RO		
31	CC0201MRX5R5BB474	CAP X5R 470nF +/-20% 6.3V CH0201 RO	1	C311
	CL03A474MQ3NNNC	CAP X5R 470nF +/-20% 6.3V CH0201 RO		
	0201X474M6R3CT	CAP X5R 470nF +/-20% 6.3V CH0201 RO		
	GRM033R60J474ME90D	CAP X5R 470nF +/-20% 6.3V CH0201 RO		

32	CC0201MRX5R5BB105	CAP X5R 1.0uF +/-20% 6.3V CH0201 RO	37	C104 C106 C108 C202 C203 C213 C217 C302 C304 C306 C307 C308 C309 C310 C313 C314 C315 C319 C320 C321 C322 C324 C325 C327 C328 C329 C336 C339 C340 C341 C342 C344 C345 C346 C347 C348 C349
	GRM033R60J105MEA2D	CAP X5R 1.0uF +/-20% 6.3V CH0201 RO		
	JMK063ABJ105MP-F	CAP X5R 1.0uF +/-20% 6.3V CH0201 RO		
	CL03A105MQ3CSNH	CAP X5R 1.0uF +/-20% 6.3V CH0201 RO		
33	CC0402KRX5R5BB105	CAP X5R 1uF +/-10% 6.3V CH0402 RO	3	C514 C519 C523
	GRM155R60J105KE19D	CAP X5R 1.0uF +/-10% 6.3V CH0402 RO		
	JMK105BJ105KV-F	CAP X5R 1uF +/-10% 6.3V CH0402 RO		
	CL05A105KQ5NNNC	CAP X5R 1uF +/-10% 6.3V CH0402 RO		
34	CC0402MRX5R5BB475	CAP X5R 4.7uF +/-20% 6.3V CH0402 RO	9	C211 C212 C214 C215 C216 C332 C513 C518 C613
	JMK105BBJ475MV-F	CAP X5R 4.7uF +/-20% 6.3V CH0402 RO		
	CL05A475MQ5NRNC	CAP X5R 4.7uF +/-20% 6.3V CH0402 RO		
	GRM155R60J475ME47D	CAP X5R 4.7uF +/-20% 6.3V CH0402 RO		
35	CC0402MRX5R5BB106	CAP X5R 10uF +/-20% 6.3V CH0402 RO	2	C305 C312
	GRM155R60J106ME44D	CAP X5R 10uF +/-20% 6.3V CH0402 RO		
	JMK105CBJ106MV-F	CAP X5R 10uF +/-20% 6.3V CH0402 RO		
	CL05A106MQ5NUNC	CAP X5R 10uF +/-20% 6.3V CH0402 RO		
36	CC0603MRX5R5BB226	CAP X5R 22uF +/-20% 6.3V CH0603 RO	4	C201 C207 C209 C210
	CL10A226MQ8NRNE	CAP X5R 22uF +/-20% 6.3V CH0603 RO		
	JMK107BBJ226MA-T	CAP X5R 22uF +/-20% 6.3V CH0603 RO		
	GRM188R60J226MEA0D	CAP X5R 22uF +/-20% 6.3V CH0603 RO		
	CL10A226MQ8NRNC	CAP X5R 22uF +/-20% 6.3V CH0603 RO		
37	CC0603MRX5R6BB226	CAP X5R 22uF +/-20% 10V CH0603 RO	1	C612
	GRM188R61A226ME15D	CAP X5R 22uF +/-20% 10V CH0603 RO		
	CL10A226MP8NUNE	CAP X5R 22uF +/-20% 10V CH0603 RO		
38	HKQ0603W1N0B-T	IND HIGH HQ 1.0nH +/-0.1nH CH0201 RO	2	R607 R609
	SDCL0603Q1N0BT02	IND HIGH HQ 1.0nH +/-0.1nH CH0201 RO		
39	HKQ0603W1N5B-T	IND HIGH HQ 1.5nH +/-0.1nH CH0201 RO	1	R521
	SDCL0603Q1N5BT02	IND HIGH HQ 1.5nH +/-0.1nH CH0201 RO		

40	HKQ0603W2N7B-T	IND HIGH HQ 2.7nH +/-0.1nH CH0201 RO	1	L706
	SDCL0603Q2N7BT02	IND HIGH HQ 2.7nH +/-0.1nH CH0201 RO		
41	HKQ0603W3N9B-T	IND HIGH HQ 3.9nH +/-0.1nH CH0201 RO	2	L601 L704
	SDCL0603Q3N9BT02	IND HIGH HQ 3.9nH +/-0.1nH CH0201 RO		
42	HKQ0603W4N7H-T	IND HIGH HQ 4.7nH +/-3% CH0201 RO	1	L603
	SDCL0603Q4N7BT02	IND HIGH HQ 4.7nH +/-0.1nH CH0201 RO		
43	SDCL0603Q5N1BT02	IND HIGH HQ 5.1nH +/-0.1nH CH0201 RO	4	C531 L502 L506 L708
	HKQ0603W5N1H-T	IND HIGH HQ 5.1nH +/-3% CH0201 RO		
44	HKQ0603W7N5H-T	IND HIGH HQ 7.5nH +/-3% CH0201 RO	2	L507 L705
	SDCL0603Q7N5HT02	IND HIGH HQ 7.5nH +/-3% CH0201 RO		
45	HK060312NJ-T	IND HIGH 12nH +/-5% CH0201 RO	1	C511
	SDCL0603Q12NJT02	IND HIGH HQ 12nH +/-5% CH0201 RO		
46	HK060315NJ-T	IND HIGH 15nH +/-5% CH0201 RO	1	L501
	SDCL0603Q15NJT02	IND HIGH HQ 15nH +/-5% CH0201 RO		
47	HKQ0603W22NH-T	IND HIGH HQ 22nH +/-3% CH0201 RO	1	L508
	SDCL0603Q22NHT02	IND HIGH HQ 22nH +/-3% CH0201 RO		
48	MLG0603P36NHTZ10	IND HIGH HQ 36nH +/-3% CH0201 RO	1	R526
49	WPN201610UR47MT	IND LOW 0.47uH +/-20% 0.028ohm 3.6A 2.0x1.6mm H1.0mm RO	1	L201
	MEKK2016TR47M	IND LOW 0.47uH +/-20% 0.03ohm 4.3A 2.0x1.6mm H1.0mm RO		
	TFM201610AHB-R47MTAA	IND LOW 0.47uH +/-20% 0.032ohm 3.9A 2.0x1.6mm H1.0mm RO		
50	WPN201610UF1R0MT	IND LOW 1.0uH +/-20% 0.038ohm 3.65A 2.0x1.6mm H1.0mm RO	1	L202
	TFM201610ALM-1R0MTGA	IND LOW 1.0uH +/-20% 0.045ohm 3.3A 2.0x1.6mm H1.0mm RO		
51	BK0603LL470-T	BEAD 47ohm@100MHz DCR=0.7ohm 0.15A CH0201 RO	1	R504
52	RUM001L02T2CL	AUD NMOS VDS=20V 0.1A Vth=0.3~1V VMT3 RO	1	Q101
	RUM002N02T2L	AUD NMOS VDS=20V 0.2A Vth=0.3~1V VMT3 RO		
	WNM2030-3/TR	AUD NMOS VDS=20V 0.75A Vth=0.45~1V SOT-723 RO		
53	LXES15AAA1-153	ESD POLY Vrw=4V 0.05pF CH0402 RO	3	D601 D602 D702
54	SGM2040-3.3YUDH4G/TR	PMIC LDO 1.7-7.5V 3.3V 250mA UTDFN-1x1-4AL H0.6mm RO	1	U302

55	SFHG89GA002	IC RF RX filter GPS/GLONASS/Campass Unbalance 15dBm 1.1x0.9mm H0.5mm RO	2	U704 U705
56	DEA102180LT-6341B1	IC RF TX LPF 1695-2180MHz 1.0x0.5mm H0.5mm RO	1	U504
57	FI 168L0829FD-T	IC RF TX LPF 698-960MHz 1.6x0.8mm H 0.65mm RO	1	U503
58	AR8125	IC RF LNA GPS/Glonass/Galileo/Beidou 1.1x0.9mm H0.45mm RO	1	U703
59	VC7912-61	IC RF SWITCH SP10T + GSM Qualband 5.3x5.5mm H0.905mm RO	1	U603
60	SDR-105-0-NSP63B-TR-01-0	IC RF TRA SDR105 GSM CATM NB 63pin FCBGA+PA CLASS5 SWITCH 2.98x4.64mm H0.83mm V2.0 RO	1	U501
	SDR-105-0-NSP63B-SR-01-0	IC RF TRA SDR105 GSM CATM NB 63pin FCBGA+PA CLASS5 SWITCH 2.98x4.64mm H0.83mm V2.0 RO		
	SDR-105-0-NSP63B-HR-01-0	IC RF TRA SDR105 GSM CATM NB 63pin FCBGA+PA CLASS5 SWITCH 2.98x4.64mm H0.83mm V2.0 RO		
	SDR-105-0-NSP63B-MT-01-0	IC RF TRA SDR105 GSM CATM NB 63pin FCBGA+PA CLASS5 SWITCH 2.98x4.64mm H0.83mm V2.0 RO		
61	RFLPF10050G9DM1T76	IC RF LOW PASS FILTER 698-960MHz 1.0x0.5mm H0.4mm RO	1	U502
62	MDM-9205-0-NSP177-TR-00-0	IC BB MDM9205 177-NSP 0.4pitch 5.9x6.2mm H0.98mm RO	1	U301
	MDM-9205-0-NSP177-MT-00-0	IC BB MDM9205 177-NSP 0.4pitch 5.9x6.2mm H0.98mm RO		
	MDM-9205-0-NSP177-SR-00-0	IC BB MDM9205 177-NSP 0.4pitch 5.9x6.2mm H0.98mm RO		
	MDM-9205-0-NSP177-HR-00-0	IC BB MDM9205 177-NSP 0.4pitch 5.9x6.2mm H0.98mm RO		
63	PME-9205-0-WLNSP49D-TR-02-0-00	IC PMU PME9205 49-WLNSP 2.85x2.89mm H0.5mm RO	1	U101
	PME-9205-0-WLNSP49D-SR-02-0-00	IC PMU PME9205 49-WLNSP 2.85x2.89mm H0.5mm RO		
	PME-9205-0-WLNSP49D-HR-02-0-00	IC PMU PME9205 49-WLNSP 2.85x2.89mm H0.5mm RO		
	PME-9205-0-WLNSP49D-MT-02-0-00	IC PMU PME9205 49-WLNSP 2.85x2.89mm H0.5mm RO		
64	CT2016DB19200C0FLHA1	CRY XO+TH 19.2MHz 7.0pF +/-10ppm B=4250K R=100kohm 2.0x1.6mm H1.0mm RO	1	Y101
65	BG95_V2.1_PCB_HB	PCB BG95 V2.1 6L HDI 19.9x23.6mm H0.6mm HB RO	1	

66	BG95_V2.1_Shielding_Fra me_ZR_R3	Shielding Frame BG95_V2.1 19x22.7mm T0.2mm H1.35mm C7701 ZR RO	1	H101
67	BG95_V1.1_Shielding_Cov er_ZR_R1	Shielding Cover BG95_V1.1 19.36x23.06mm T0.15mm H1.35mm SUS304 3/4H ZR RO	1	
68		NM	18	R101 R105 R407 R408 R409 R410 R412 R501 R502 R508 R519 R528 R603 R604 R708 R709 R712 R713
69		NM	19	C102 C204 C205 C206 C208 C404 C405 C406 C407 C504 C505 C506 C507 C532 C533 C534 C603 C611 C617
70		NM	4	L602 L604 L605 L707
71		NM	3	U401 U601 U602