

# **CCS Technical Documentation**

## **NHM-4 Series Transceivers**

## **Parts Lists**

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## Parts list LA4 module 0201453

v. 19

Item	Code	Side	X_Y		Name			
B200	4510219	Top	R	2	CRYSTAL	32.768kHz	~	
C101	2318005	Bottom	O	3	Chipcap	1u	16V	FILTER
C103	2320546	Bottom	P	2	Chipcap	27p	50V	0402C
C104	2315201	Bottom	P	5	Chip Array	2x27p	25V	0405_2_P0.65
C105	2320546	Bottom	P	1	Chipcap	27p	50V	0402C
C107	2315201	Bottom	P	2	Chip Array	2x27p	25V	0405_2_P0.65
C108	2318005	Bottom	P	3	Chipcap	1u	16V	FILTER
C110	2315201	Bottom	P	2	Chip Array	2x27p	25V	0405_2_P0.65
C112	2320546	Top	P	4	Chipcap	27p	50V	0402C
C113	2318005	Bottom	P	6	Chipcap	1u	16V	FILTER
C114	2315205	Top	P	2	Chip Array	2x1n	16V	0405_2_
C115	2320756	Top	P	2	Chipcap	3n3	50V	0402C
C116	2320756	Top	P	2	Chipcap	3n3	50V	0402C
C118	2318005	Bottom	P	5	Chipcap	1u	16V	FILTER
C131	2320481	Bottom	P	7	Chipcap	1u0	6.3V	0603C
C132	2320481	Top	P	7	Chipcap	1u0	6.3V	0603C
C133	2320560	Top	P	7	Chipcap	100p	50V	0402C
C151	2315209	Top	P	2	Chip Array	2x33n	10V	0405_2_
C152	2320546	Top	P	1	Chipcap	27p	50V	0402C
C155	2315209	Top	P	2	Chip Array	2x33n	10V	0405_2_
C157	2320481	Top	P	3	Chipcap	1u0	6.3V	0603C
C158	2320805	Top	P	3	Chipcap	100n	10V	0402C
C160	2315201	Top	P	2	Chip Array	2x27p	25V	0405_2_P0.65
C161	2315201	Top	P	2	Chip Array	2x27p	25V	0405_2_P0.65
C163	2315201	Top	P	2	Chip Array	2x27p	25V	0405_2_P0.65
C165	2320805	Top	P	2	Chipcap	100n	10V	0402C
C166	2320481	Top	P	2	Chipcap	1u0	6.3V	0603C
C168	2320546	Top	P	2	Chipcap	27p	50V	0402C

Item	Code	Side	X_Y		Name			
C200	2320805	Top	P	4	Chipcap	100n	10V	0402C
C201	2320481	Top	P	4	Chipcap	1u0	6.3V	0603C
C202	2318005	Top	P	4	Chipcap	1u	16V	FILTER_
C203	2320481	Top	P	2	Chipcap	1u0	6.3V	0603C
C204	2320481	Top	P	4	Chipcap	1u0	6.3V	0603C
C205	2320481	Top	P	3	Chipcap	1u0	6.3V	0603C
C206	2320481	Top	P	3	Chipcap	1u0	6.3V	0603C
C207	2316001	Top	P	3	Chipcap	2u2	6V3	0603C
C208	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C209	2320536	Top	P	3	Chipcap	10p	50V	0402C
C210	2320536	Top	P	2	Chipcap	10p	50V	0402C
C211	2320481	Top	P	2	Chipcap	1u0	6.3V	0603C
C212	2320481	Top	P	2	Chipcap	1u0	6.3V	0603C
C213	2320481	Top	P	2	Chipcap	1u0	6.3V	0603C
C214	2320481	Top	P	2	Chipcap	1u0	6.3V	0603C
C215	2320481	Top	P	2	Chipcap	1u0	6.3V	0603C
C218	2320805	Top	P	4	Chipcap	100n	10V	0402C
C219	2320139	Top	P	5	Chipcap	1u0	10V	0603C_H0.95
C220	2320778	Top	P	2	Chipcap	10n	16V	0402C
C221	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C222	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C223	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C224	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C225	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C226	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C227	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C228	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C229	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C230	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C231	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C232	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C233	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C

Item	Code	Side	X_Y		Name			
C234	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C235	2320481	Top	P	2	Chipcap	1u0	6.3V	0603C
C236	2320805	Top	P	4	Chipcap	100n	10V	0402C
C237	2320805	Top	P	5	Chipcap	100n	10V	0402C
C238	2320805	Top	P	4	Chipcap	100n	10V	0402C
C239	2320805	Top	P	3	Chipcap	100n	10V	0402C
C240	2320778	Top	P	4	Chipcap	10n	16V	0402C
C241	2320744	Top	P	3	Chipcap	1n0	50V	0402C
C242	2320744	Top	P	3	Chipcap	1n0	50V	0402C
C243	2320481	Top	P	2	Chipcap	1u0	6.3V	0603C
C260	2320481	Top	P	6	Chipcap	1u0	6.3V	0603C
C261	2320481	Top	P	4	Chipcap	1u0	6.3V	0603C
C262	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C263	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C264	2320481	Top	P	6	Chipcap	1u0	6.3V	0603C
C265	2320481	Top	P	3	Chipcap	1u0	6.3V	0603C
C306	2320778	Top	P	6	Chipcap	10n	16V	0402C
C309	2320546	Top	P	6	Chipcap	27p	50V	0402C
C312	2320546	Bottom	P	7	Chipcap	27p	50V	0402C
C319	2320481	Top	P	7	Chipcap	1u0	6.3V	0603C
C320	2312243	Top	P	6	Chipcap	4u7	6V3	0805C
C321	2312243	Top	P	6	Chipcap	4u7	6V3	0805C
C322	2360001	Top	P	7	Chipcap	330n	10V	0603C
C323	2312243	Top	P	7	Chipcap	4u7	6V3	0805C
C324	2360001	Top	P	6	Chipcap	330n	10V	0603C
C326	2320546	Top	P	6	Chipcap	27p	50V	0402C
C327	2320481	Top	P	6	Chipcap	1u0	6.3V	0603C
C328	2320546	Top	P	6	Chipcap	27p	50V	0402C
C330	2320139	Top	P	1	Chipcap	1u0	10V	0603C_H0.95
C331	2315211	Top	P	1	Chipcap	2x100n	10V	0405_2
C350	2320805	Top	P	7	Chipcap	100n	10V	0402C
C351	2312243	Top	P	2	Chipcap	4u7	6V3	0805C

Item	Code	Side	X_Y		Name			
C389	2320805	Top	P	3	Chipcap	100n	10V	0402C
C400	2320778	Top	P	2	Chipcap	10n	16V	0402C
C401	2320805	Top	P	2	Chipcap	100n	10V	0402C
C402	2320778	Top	P	4	Chipcap	10n	16V	0402C
C403	2320778	Top	P	5	Chipcap	10n	16V	0402C
C404	2320778	Top	P	5	Chipcap	10n	16V	0402C
C405	2320778	Top	P	5	Chipcap	10n	16V	0402C
C421	2320560	Top	P	5	Chipcap	100p	50V	0402C
C422	2320560	Top	P	5	Chipcap	100p	50V	0402C
C423	2320560	Top	P	5	Chipcap	100p	50V	0402C
C450	2320778	Top	P	7	Chipcap	10n	16V	0402C
C451	2320805	Top	P	7	Chipcap	100n	10V	0402C
C454	2320779	Top	P	6	Chipcap	100n	16V	0603_BLM
C500	2320548	Bottom	P	2	Chipcap	33p	50V	0402C
C501	2320548	Bottom	P	2	Chipcap	33p	50V	0402C
C502	2320526	Bottom	P	2	Chipcap	3p9	50V	0402C
C504	2320805	Bottom	P	2	Chipcap	100n	10V	0402C
C505	2320560	Bottom	P	2	Chipcap	100p	50V	0402C
C506	2320560	Bottom	P	2	Chipcap	100p	50V	0402C
C507	2320778	Bottom	P	1	Chipcap	10n	16V	0402C
C550	2320540	Bottom	P	3	Chipcap	15p	50V	0402C
C551	2320522	Bottom	P	3	Chipcap	2p7	50V	0402C
C552	2320516	Bottom	P	3	Chipcap	1p5	50V	0402C
C553	2320540	Bottom	P	3	Chipcap	15p	50V	0402C
C554	2320805	Bottom	P	4	Chipcap	100n	10V	0402C
C555	2320560	Bottom	P	2	Chipcap	100p	50V	0402C
C556	2320560	Bottom	P	3	Chipcap	100p	50V	0402C
C557	2320536	Bottom	P	3	Chipcap	10p	50V	0402C
C600	2320546	Bottom	P	4	Chipcap	27p	50V	0402C
C601	2320805	Bottom	P	3	Chipcap	100n	10V	0402C
C602	2320778	Bottom	P	4	Chipcap	10n	16V	0402C
C603	2320778	Bottom	P	3	Chipcap	10n	16V	0402C

Item	Code	Side	X_Y		Name			
C604	2320536	Bottom	P	3	Chipcap	10p	50V	0402C
C605	2320805	Bottom	P	2	Chipcap	100n	10V	0402C
C608	2320783	Bottom	P	3	Chipcap	33n	10V	0402C
C609	2320562	Bottom	P	2	Chipcap	120p	50V	0402C
C610	2320562	Bottom	P	2	Chipcap	120p	50V	0402C
C611	2320783	Bottom	P	3	Chipcap	33n	10V	0402C
C612	2320778	Bottom	P	2	Chipcap	10n	16V	0402C
C613	2320805	Bottom	P	2	Chipcap	100n	10V	0402C
C614	2320778	Bottom	P	4	Chipcap	10n	16V	0402C
C615	2320558	Bottom	P	2	Chipcap	82p	50V	0402C
C616	2320552	Bottom	P	4	Chipcap	47p	50V	0402C
C617	2320552	Bottom	P	4	Chipcap	47p	50V	0402C
C620	2320481	Bottom	P	2	Chipcap	1u0	6.3V	0603C
C621	2320481	Bottom	P	2	Chipcap	1u0	6.3V	0603C
C622	2320481	Bottom	P	2	Chipcap	1u0	6.3V	0603C
C623	2320481	Bottom	P	2	Chipcap	1u0	6.3V	0603C
C624	2314001	Bottom	P	2	Chipcap	470p	6V3	0402C
C625	2314001	Bottom	P	2	Chipcap	470p	6V3	0402C
C626	2314001	Bottom	P	2	Chipcap	470p	6V3	0402C
C627	2314001	Bottom	P	2	Chipcap	470p	6V3	0402C
C650	2320602	Bottom	P	3	Chipcap	4p7	50V	0402C
C652	2320564	Bottom	P	4	Chipcap	150p	50V	0402C
C653	2322015	Bottom	P	3	Chipcap	2n2	16V	0603C
C654	2320564	Bottom	P	4	Chipcap	150p	50V	0402C
C655	2320481	Bottom	P	3	Chipcap	1u0	6.3V	0603C
C656	2320520	Bottom	P	3	Chipcap	2p2	50V	0402C
C660	2320560	Bottom	P	3	Chipcap	100p	50V	0402C
C661	2320779	Bottom	P	1	Chipcap	100n	16V	0603_BLM
C662	2320481	Bottom	P	2	Chipcap	1u0	6.3V	0603C
C663	2320560	Bottom	P	3	Chipcap	100p	50V	0402C
C664	2320560	Bottom	P	2	Chipcap	100p	50V	0402C
C665	2320560	Bottom	P	4	Chipcap	100p	50V	0402C

Item	Code	Side	X_Y		Name			
C700	2320518	Bottom	P	3	Chipcap	1p8	50V	0402C
C701	2320548	Bottom	P	4	Chipcap	33p	50V	0402C
C702	2320548	Bottom	P	4	Chipcap	33p	50V	0402C
C703	2320554	Bottom	P	4	Chipcap	56p	50V	0402C
C705	2320540	Bottom	P	6	Chipcap	15p	50V	0402C
C706	2320540	Bottom	P	3	Chipcap	15p	50V	0402C
C707	2320518	Bottom	P	3	Chipcap	1p8	50V	0402C
C708	2611753	Bottom	P	3	Chipcap	33u_16V	16V	TANT_TPSW2
C709	2312243	Bottom	P	5	Chipcap	4u7	6V3	0805C
C710	2320778	Bottom	P	6	Chipcap	10n	16V	0402C
C711	2320540	Bottom	P	6	Chipcap	15p	50V	0402C
C712	2320778	Bottom	P	6	Chipcap	10n	16V	0402C
C713	2320540	Bottom	P	5	Chipcap	15p	50V	0402C
C714	2320778	Bottom	P	6	Chipcap	10n	16V	0402C
C715	2320548	Bottom	P	4	Chipcap	33p	50V	0402C
C716	2320548	Bottom	P	4	Chipcap	33p	50V	0402C
C717	2320540	Bottom	P	3	Chipcap	15p	50V	0402C
C718	2310045	Bottom	P	4	Chipcap	68n	10V	0402C_GRM36
C719	2310045	Bottom	P	4	Chipcap	68n	10V	0402C_GRM36
C720	2320778	Bottom	P	5	Chipcap	10n	16V	0402C
C721	2320536	Bottom	P	6	Chipcap	10p	50V	0402C
C722	2320546	Bottom	P	4	Chipcap	27p	50V	0402C
C723	2320778	Bottom	P	3	Chipcap	10n	16V	0402C
C724	2320536	Bottom	P	6	Chipcap	10p	50V	0402C
C726	2320508	Bottom	P	4	Chipcap	1p0	50V	0402C
C727	2320548	Bottom	P	4	Chipcap	33p	50V	0402C
C728	2318005	Bottom	P	5	Chipcap	1u	16V	FILTER_
C729	2320516	Bottom	P	6	Chipcap	1p5	50V	0402C
C751	2320520	Bottom	P	4	Chipcap	2p2	50V	0402C
C752	2322023	Bottom	P	4	Chipcap	2n2	16V	0603C
C753	2320540	Bottom	P	4	Chipcap	15p	50V	0402C
C754	2320540	Bottom	P	3	Chipcap	15p	50V	0402C

Item	Code	Side	X_Y		Name			
C755	2320778	Bottom	P	3	Chipcap	10n	16V	0402C
C756	2320546	Bottom	P	3	Chipcap	27p	50V	0402C
C780	2320560	Bottom	P	2	Chipcap	100p	50V	0402C
C781	2320560	Bottom	P	3	Chipcap	100p	50V	0402C
D130	4341267	Top	P	6	NC7SZ08P5X 1XAND	~	~	SC70_5
D200	4370805	Top	P	4	UEM V4.4 W-DOG ENA	~	~	uBGA168
D400	4370815	Top	P	3	UPP8MV1.1 F741987A	~	~	uBGA144_CC
D450	4340835	Top	P	7	FLASH 4MX16	4Mx16	~	uBGA40
F100	5119019	Bottom	P	4	SM FUSE F	1.5A	32V	0603_FUSE
G300	4700131	Bottom	P	7	CELL CAPACITOR	3V3	0.01 mAh	XH414_IIO2N
G650	4350243	Bottom	P	4	VCO	3420-3840MHz	~	VCO_GK_601M NA_2
G660	4510321	Bottom	P	2	VCTCXO 26MHZ	26MHz	~	VCTCXO_KT16
L101	3203801	Bottom	P	1	CHIP BEAD ARRAY	2x1000R/100MHz	100 MHz	0405_2_
L102	3203801	Bottom	P	1	CHIP BEAD ARRAY	2x1000R/100MHz	~	0405_2_
L104	3203801	Top	P	2	CHIP BEAD ARRAY	2x1000R/100MHz	~	0405_2_
L132	3203741	Top	P	7	FERRITE BEAD	600R/100MHz	~	0603_BLM
L133	3203741	Bottom	P	7	FERRITE BEAD	600R/100MHz	~	0603_BLM
L151	3203801	Top	P	2	CHIP BEAD ARRAY	2x1000R/100MHz	~	0405_2_
L260	3203741	Top	P	6	FERRITE BEAD	600R/100MHz	~	0603_BLM
L261	3203741	Top	P	4	FERRITE BEAD	600R/100MHz	~	0603_BLM
L262	3203741	Top	P	5	FERRITE BEAD	600R/100MHz	~	0603_BLM
L263	3203741	Top	P	5	FERRITE BEAD	600R/100MHz	~	0603_BLM
L264	3203741	Top	P	5	FERRITE BEAD	600R/100MHz	~	0603_BLM
L265	3203741	Top	P	5	FERRITE BEAD	600R/100MHz	~	0603_BLM

Item	Code	Side	X_Y		Name			
L500	3646091	Bottom	P	2	CHIP COIL	6n8H	~	0402L
L501	3646067	Bottom	P	2	CHIP COIL	18nH	~	0402L
L502	3646065	Bottom	P	2	CHIP COIL	12nH	~	0402L
L503	3646091	Bottom	P	2	CHIP COIL	6n8H	~	0402L
L550	3646051	Bottom	P	3	CHIP COIL	3n9H	~	0402L
L551	3646091	Bottom	P	2	CHIP COIL	6n8H	~	0402L
L552	3646051	Bottom	P	3	CHIP COIL	3n9H	~	0402L
L700	3646053	Bottom	P	4	CHIP COIL	4n7H	~	0402L
L701	3646053	Bottom	P	4	CHIP COIL	4n7H	~	0402L
L702	3646051	Bottom	P	3	CHIP COIL	3n9H	~	0402L
L704	3203715	Bottom	P	6	FERRITE BEAD	240R	100 MHz	BK1005
L705	3646059	Bottom	P	6	CHIP COIL	5n6H	~	0402L
L750	4551015	Bottom	P	4	DIR.COUPLER	897.5/ 1747.5/ 1880M	~	COUPLER_LDC1 5D
N320	4341137	Top	P	6	DC/DC CONV LM3353	~	~	MSOP_10
N600	4370781	Bottom	P	3	IC HAGAR 5	~	~	uBGA80_H1.7
N700	4350297	Bottom	P	5	PW AMP RF9203E	~	~	RF_AMP_RF92 03_E5_H1.65
R102	1430804	Top	P	3	Resistor 5% 63mW	100k	~	0402R
R152	1430762	Top	P	1	Resistor 5% 63mW	2k2	~	0402R
R153	1825033	Top	P	2	CHIP VARISTOR	14V/46V	~	0402_VAR
R154	1430778	Top	P	2	Resistor 5% 63mW	10k	~	0402R
R155	1430804	Top	P	3	Resistor 5% 63mW	100k	~	0402R
R156	1620105	Top	P	2	RES NETWORK	2x2k2	0W0 6	MNR02
R157	1620105	Top	P	2	RES NETWORK	2x2k2	0W0 6	MNR02
R159	1825031	Bottom	P	1	VARISTOR ARRAY	2XVWM16 V	16V	0405_2
R161	1825031	Bottom	P	1	VARISTOR ARRAY	2XVWM16 V	16V	0405_2
R164	1620103	Top	P	2	Chipres Array 0W06 J 0404	2x22R	0W0 6	0404_R_SR

Item	Code	Side	X_Y		Name			
R165	1620103	Top	P	2	Chipres Array 0W06 J 0404	2x22R	0W0 6	0404_R_SR
R166	1430137	Top	P	2	CHIPRES	1k0	0W0 6	0402R
R167	1430137	Top	P	2	CHIPRES	1k0	0W0 6	0402R
R200	1419003	Top	P	4	CHIPRES	0R22	~	1210_R
R202	1620067	Top	P	4	RES NETWORK	4x100k	0W0 6	804
R206	1430770	Top	P	4	Resistor 5% 63mW	4k7	~	0402R
R207	1430770	Top	P	3	Resistor 5% 63mW	4k7	~	0402R
R301	1430770	Bottom	P	8	Resistor 5% 63mW	4k7	~	0402R
R310	1430693	Top	P	2	Chipres 0W06 5R6 J 0402	5R6	~	0402R
R313	1620027	Top	P	6	RES NETWORK	2x47R	0W0 6	0404_R_SR
R325	1430804	Top	P	6	Resistor 5% 63mW	100k	~	0402R
R326	1430754	Top	P	6	Resistor 5% 63mW	1k0	~	0402R
R327	1430726	Top	P	7	Resistor 5% 63mW	100R	~	0402R
R350	1413850	Top	P	2	CHIPRES 0W125 4R7 J 0805	4R7	~	0805R
R352	1430804	Top	P	2	Resistor 5% 63mW	100k	~	0402R
R388	4120071	Top	P	2	SIM FILTER	~	~	uBGA8
R420	1430726	Top	P	5	Resistor 5% 63mW	100R	~	0402R
R421	1430778	Top	P	5	Resistor 5% 63mW	10k	~	0402R
R422	1430790	Top	P	5	Resistor 5% 63mW	27k	~	0402R
R423	1430778	Top	P	5	Resistor 5% 63mW	10k	~	0402R
R424	1430690	Top	P	5	Chipres jumper	0R	0W0 6	0402R
R450	1430770	Top	P	5	Resistor 5% 63mW	4k7	~	0402R
R500	1430726	Bottom	P	2	Resistor 5% 63mW	100R	~	0402R
R501	1430700	Bottom	P	2	Resistor 5% 63mW	10R	~	0402R
R502	1430846	Bottom	P	1	Resistor 1% 63mW	2k7	~	0402R
R550	1430740	Bottom	P	3	Resistor 5% 63mW	330R	~	0402R
R551	1430700	Bottom	P	4	Resistor 5% 63mW	10R	~	0402R
R558	1430846	Bottom	P	3	Resistor 1% 63mW	2k7	~	0402R

Item	Code	Side	X_Y		Name			
R600	1620081	Bottom	P	2	RES NETWORK	4x22R	0W0 3	MNR04
R602	1430770	Bottom	P	2	Resistor 5% 63mW	4k7	~	0402R
R603	1430846	Bottom	P	3	Resistor 1% 63mW	2k7	~	0402R
R604	1430770	Bottom	P	2	Resistor 5% 63mW	4k7	~	0402R
R606	1430784	Bottom	P	1	Resistor 5% 63mW	15k	~	0402R
R607	1620065	Bottom	P	4	RES NETWORK	4x5.6k	0W0 3	MNR04
R608	1430804	Bottom	P	4	Resistor 5% 63mW	100k	~	0402R
R609	1430804	Bottom	P	4	Resistor 5% 63mW	100k	~	0402R
R650	1430137	Bottom	P	4	CHIPRES	1k0	~	0402R
R651	1430907	Bottom	P	4	CHIPRES	11k	~	0402R
R652	1430700	Bottom	P	3	Resistor 5% 63mW	10R	~	0402R
R660	1430137	Bottom	P	3	CHIPRES	1k0	~	0402R
R661	1430774	Bottom	P	1	Resistor 5% 63mW	6k8	~	0402R
R662	1430762	Bottom	P	2	Resistor 5% 63mW	2k2	~	0402R
R663	1430804	Bottom	P	2	Resistor 5% 63mW	100k	~	0402R
R700	1430734	Bottom	P	4	Resistor 5% 63mW	220R	~	0402R
R701	1620121	Bottom	P	3	RES NETWORK	2x220R	0W0 6	MNR02_SR
R702	1620515	Bottom	P	6	RES NETWORK	870R/ 5R77/870R	0W0 6	0404_RAC10
R703	1430714	Bottom	P	4	Resistor 5% 63mW	33R	~	0402R
R704	1430714	Bottom	P	4	Resistor 5% 63mW	33R	~	0402R
R705	1620515	Bottom	P	6	RES NETWORK	870R/ 5R77/870R	~	0404_RAC10
R709	1430734	Bottom	P	4	Resistor 5% 63mW	220R	~	0402R
R710	1430734	Bottom	P	4	Resistor 5% 63mW	220R	~	0402R
R751	1430770	Bottom	P	4	Resistor 5% 63mW	4k7	~	0402R
R752	1430788	Bottom	P	4	Resistor 5% 63mW	22k	~	0402R
R753	1430770	Bottom	P	3	Resistor 5% 63mW	4k7	~	0402R
R754	1430764	Bottom	P	3	Resistor 5% 63mW	3k3	~	0402R
R755	1430718	Bottom	P	3	Resistor 5% 63mW	47R	~	0402R
R756	1430726	Bottom	P	4	Resistor 5% 63mW	100R	~	0402R

Item	Code	Side	X_Y		Name			
S300	4341087	Top	P	8	HALL IC SWITCH TLE4917	~	~	SOT23_6
S302	5209009	Bottom	P	7	SM SW TACT SPST-NO	~	~	SOT23_6
T650	3640423	Bottom	P	3	BALUN TRANS	3.7GHZ+/- 300MHZ	~	TRANS_LDB15
T700	4550137	Bottom	P	3	TRANSF BALUN	1.8GHZ+/- 100MHZ	~	TRANS_LDB15
V100	4113721	Bottom	P	6	TVS DI 1PMT16AT3	~	~	CASE_457
V108	4110475	Bottom	P	2	SCH DI RB521S-30	~	~	SOD523
V130	4350289	Bottom	P	6	BLUETOOTH LRB-2 MCM	~	~	26X13X2
V324	4860311	Top	P	2	LED LWY87C WHITE	~	~	LED_LWY873
V325	4860311	Top	P	7	LED LWY87C WHITE	~	~	LED_LWY873
V350	4210043	Top	P	2	TR DTC143ZE	~	~	EM3
V351	4860101	Bottom	P	7	IRDA TFDU5102	~	~	TFDU5102
V500	4210277	Bottom	P	2	TR BGB420	~	~	SOT343_R
V550	4210261	Bottom	P	3	TR BGA428	~	~	SOT_363
V660	4210100	Bottom	P	2	Tr NPN	~	~	SOT323
V750	4110079	Bottom	P	4	SCH DIX2 HSMS282C	~	~	SOT323
X100	5469171	Bottom	P	2	SM CONN 2X10M	~	~	
X101	5409141	Bottom	P	5	SM BATTERY CONN	4POL	~	
X130	5409193	Bottom	P	7	ANTENNA SPACER PAD	~	~	
X131	5409193	Bottom	P	7	ANTENNA SPACER PAD	~	~	
X300	5469175	Top	P	2	SM CONN BTB	~	~	
X303	5469135	Top	P	6	SM CONN 2X8 SPR	~	~	
X386	5409181	Bottom	P	5	SM SIM CONN	~	~	2X3POL
X500	5409193	Bottom	P	2	ANTENNA SPACER PAD	~	~	
X501	5409193	Bottom	P	4	ANTENNA SPACER PAD	~	~	
X505	5409193	Top	P	2	ANTENNA SPACER PAD	~	~	
Z301	4120031	Top	P	5	EMI/ESD FILTER	~	~	uBGA24
Z500	4512133	Bottom	P	3	ANT.SWITCH	880-960/ 1710- 1990MHz	~	UM_0318C1
Z501	4511235	Bottom	P	2	SAW FILT	942.5MHz	~	DCC6D_H1.15

Item	Code	Side	X_Y		Name			
Z520	4511181	Bottom	P	2	Dual SAW FILT	925-960/ 1805- 1880MHz	~	FILTER
Z551	4511241	Bottom	P	2	SAW FILT	1842.5MH z	~	DCC6D_H1.15
Z700	4511237	Bottom	P	4	SAW FILT	897.5MHz	~	DCC6D_H1.15

## Parts list LA4 module 0201453

### PCB V\_20

Item	Code	Side	X_Y		Name			
B200	4510219	Top	R	2	Crystal	32.768kHz	~	
C101	2318005	Bottom	O	3	Chipcap	1u	16V	Filter
C103	2320546	Bottom	P	2	Chipcap	27p	50V	0402C
C104	2315201	Bottom	P	5	Chip Array	2x27p	25V	0405_2_P0.65
C105	2320546	Bottom	O	1	Chipcap	27p	50V	0402C
C107	2315201	Bottom	P	2	Chip Array	2x27p	25V	0405_2_P0.65
C108	2318005	Bottom	P	3	Chipcap	1u	16V	Filter
C110	2315201	Bottom	L	2	Chip Array	2x27p	25V	0405_2_P0.65
C112	2320546	Top	Q	4	Chipcap	27p	50V	0402C
C113	2318005	Bottom	O	6	Chipcap	1u	16V	Filter
C114	2315205	Top	N	2	Chip Array	2x1n	16V	0405_2_P0.65
C115	2320756	Top	N	2	Chipcap	3n3	50V	0402C
C116	2320756	Top	N	2	Chipcap	3n3	50V	0402C
C118	2318005	Bottom	P	5	Chipcap	1u	16V	Filter
C131	2320481	Bottom	E	7	Chipcap	1u0	6.3V	0603C
C132	2320481	Top	K	7	Chipcap	1u0	6.3V	0603C
C133	2320560	Top	N	7	Chipcap	100p	50V	0402C
C151	2315209	Top	P	2	CHIP ARRAY	2x33n	10V	0405
C152	2320546	Top	P	1	Chipcap	27p	50V	0402C
C155	2315209	Top	O	2	CHIP ARRAY	2x33n	10V	0405_2_P0.65
C157	2320481	Top	R	3	Chipcap	1u0	6.3V	0603C
C158	2320805	Top	Q	3	Chipcap	100n	10V	0402C
C160	2315201	Top	C	2	CHIP ARRAY	2x27p	25V	0405_2_P0.65
C161	2315201	Top	O	2	CHIP ARRAY	2x27p	25V	0405_2_P0.65

Item	Code	Side	X_Y		Name			
C163	2315201	Top	N	2	CHIP ARRAY	2x27p	25V	0405_2_P0.6 5
C165	2320805	Top	N	2	Chipcap	100n	10V	0402C
C166	2320481	Top	O	2	Chipcap	1u0	6.3V	0603C
C168	2320546	Top	P	2	Chipcap	27p	50V	0402C
C200	2320805	Top	Q	4	Chipcap	100n	10V	0402C
C201	2320481	Top	R	4	Chipcap	1u0	6.3V	0603C
C202	2318005	Top	R	4	Chipcap Feedthru	1u	16V	Filter
C203	2320481	Top	N	2	Chipcap	1u0	6.3V	0603C
C204	2320481	Top	Q	4	Chipcap	1u0	6.3V	0603C
C205	2320481	Top	R	3	Chipcap	1u0	6.3V	0603C
C206	2320481	Top	R	3	Chipcap	1u0	6.3V	0603C
C207	2316001	Top	N	3	Chipcap	2u2	6V3	0603C
C208	2320481	Top	Q	5	Chipcap	1u0	6.3V	0603C
C209	2320536	Top	Q	3	Chipcap	10p	50V	0402C
C210	2320536	Top	Q	2	Chipcap	10p	50V	0402C
C211	2320481	Top	R	2	Chipcap	1u0	6.3V	0603C
C212	2320481	Top	R	2	Chipcap	1u0	6.3V	0603C
C213	2320481	Top	R	2	Chipcap	1u0	6.3V	0603C
C214	2320481	Top	R	2	Chipcap	1u0	6.3V	0603C
C215	2320481	Top	Q	2	Chipcap	1u0	6.3V	0603C
C218	2320805	Top	N	4	Chipcap	100n	10V	0402C
C219	2320139	Top	R	5	Chipcap	1u0	10V	0603C_H0.95
C220	2320778	Top	N	2	Chipcap	10n	16V	0402C
C221	2320481	Top	Q	5	Chipcap	1u0	6.3V	0603C
C222	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C223	2320481	Top	Q	5	Chipcap	1u0	6.3V	0603C
C224	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C225	2320481	Top	Q	5	Chipcap	1u0	6.3V	0603C
C226	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C227	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C228	2320481	Top	N	5	Chipcap	1u0	6.3V	0603C
C229	2320481	Top	O	5	Chipcap	1u0	6.3V	0603C

Item	Code	Side	X_Y		Name			
C230	2320481	Top	0	5	Chipcap	1u0	6.3V	0603C
C231	2320481	Top	0	5	Chipcap	1u0	6.3V	0603C
C232	2320481	Top	P	5	Chipcap	1u0	6.3V	0603C
C233	2320481	Top	Q	5	Chipcap	1u0	6.3V	0603C
C234	2320481	Top	N	5	Chipcap	1u0	6.3V	0603C
C235	2320481	Top	R	2	Chipcap	1u0	6.3V	0603C
C236	2320805	Top	N	4	Chipcap	100n	10V	0402C
C237	2320805	Top	N	5	Chipcap	100n	10V	0402C
C238	2320805	Top	Q	4	Chipcap	100n	10V	0402C
C239	2320805	Top	N	3	Chipcap	100n	10V	0402C
C240	2320778	Top	N	4	Chipcap	10n	16V	0402C
C241	2320744	Top	N	3	Chipcap	1n0	50V	0402C
C242	2320744	Top	N	3	Chipcap	1n0	50V	0402C
C243	2320481	Top	R	2	Chipcap	1u0	6.3V	0603C
C260	2320481	Top	R	6	Chipcap	1u0	6.3V	0603C
C261	2320481	Top	R	4	Chipcap	1u0	6.3V	0603C
C262	2320481	Top	R	5	Chipcap	1u0	6.3V	0603C
C263	2320481	Top	R	5	Chipcap	1u0	6.3V	0603C
C264	2320481	Top	R	6	Chipcap	1u0	6.3V	0603C
C265	2320481	Top	R	3	Chipcap	1u0	6.3V	0603C
C306	2320778	Top	B	6	Chipcap	10n	16V	0402C
C309	2320546	Top	A	7	Chipcap	27p	50V	0402C
C312	2320546	Bottom	B	7	Chipcap	27p	50V	0402C
C319	2320481	Top	S	7	Chipcap	1u0	6.3V	0603C
C320	2312243	Top	Q	6	Chipcap	4u7	6V3	0805C
C321	2312243	Top	Q	6	Chipcap	4u7	6V3	0805C
C322	2360001	Top	Q	7	Chipcap	330n	10V	0603C
C323	2312243	Top	Q	7	Chipcap	4u7	6V3	0805C
C324	2360001	Top	P	6	Chipcap	330n	10V	0603C
C326	2320546	Top	B	6	Chipcap	27p	50V	0402C
C327	2320481	Top	R	6	Chipcap	1u0	6.3V	0603C
C328	2320546	Top	M	6	Chipcap	27p	50V	0402C

Item	Code	Side	X_Y		Name			
C330	2320139	Top	B	1	Chipcap	1u0	10V	0603C_H0.95
C331	2315211	Top	B	1	Chip Array	2x100n	10V	0405_2_P0.65
C350	2320805	Top	A	7	Chipcap	100n	10V	0402C
C351	2312243	Top	D	2	Chipcap	4u7	6V3	0805C
C389	2320805	Top	N	3	Chipcap	100n	10V	0402C
C400	2320778	Top	L	2	Chipcap	10n	16V	0402C
C401	2320805	Top	L	2	Chipcap	100n	10V	0402C
C402	2320778	Top	N	4	Chipcap	10n	16V	0402C
C403	2320778	Top	M	5	Chipcap	10n	16V	0402C
C404	2320778	Top	L	5	Chipcap	10n	16V	0402C
C405	2320778	Top	M	5	Chipcap	10n	16V	0402C
C406	2320778	Top	N	3	Chipcap	10n	16V	0402C
C420	2320560	Bottom	H	4	Chipcap	100p	50V	0402C
C421	2320560	Top	N	5	Chipcap	100p	50V	0402C
C422	2320560	Top	N	5	Chipcap	100p	50V	0402C
C423	2320560	Top	M	5	Chipcap	100p	50V	0402C
C450	2320778	Top	P	7	Chipcap	10n	16V	0402C
C451	2320805	Top	P	7	Chipcap	100n	10V	0402C
C454	2320779	Top	P	6	Chipcap	100n	16V	0603_BLM
C500	2320548	Bottom	C	2	Chipcap	33p	50V	0402C
C501	2320548	Bottom	D	2	Chipcap	33p	50V	0402C
C502	2320526	Bottom	E	2	Chipcap	3p9	50V	0402C
C504	2320805	Bottom	E	2	Chipcap	100n	10V	0402C
C505	2320560	Bottom	G	2	Chipcap	100p	50V	0402C
C506	2320560	Bottom	G	2	Chipcap	100p	50V	0402C
C507	2320778	Bottom	E	1	Chipcap	10n	16V	0402C
C550	2320540	Bottom	C	3	Chipcap	15p	50V	0402C
C551	2320522	Bottom	D	3	Chipcap	2p7	50V	0402C
C552	2320516	Bottom	E	3	Chipcap	1p5	50V	0402C
C553	2320540	Bottom	E	3	Chipcap	15p	50V	0402C
C554	2320805	Bottom	E	4	Chipcap	100n	10V	0402C
C555	2320560	Bottom	G	2	Chipcap	100p	50V	0402C

Item	Code	Side	X_Y		Name			
C556	2320560	Bottom	G	3	Chipcap	100p	50V	0402C
C557	2320536	Bottom	D	3	Chipcap	10p	50V	0402C
C600	2320546	Bottom	H	4	Chipcap	27p	50V	0402C
C601	2320805	Bottom	G	3	Chipcap	100n	10V	0402C
C602	2320778	Bottom	I	4	Chipcap	10n	16V	0402C
C603	2320778	Bottom	I	3	Chipcap	10n	16V	0402C
C604	2320536	Bottom	I	3	Chipcap	10p	50V	0402C
C605	2320805	Bottom	I	2	Chipcap	100n	10V	0402C
C608	2320783	Bottom	I	3	Chipcap	33n	10V	0402C
C609	2320562	Bottom	I	2	Chipcap	120p	50V	0402C
C610	2320562	Bottom	I	2	Chipcap	120p	50V	0402C
C611	2320783	Bottom	I	3	Chipcap	33n	10V	0402C
C612	2320778	Bottom	I	2	Chipcap	10n	16V	0402C
C613	2320805	Bottom	H	2	Chipcap	100n	10V	0402C
C614	2320778	Bottom	I	4	Chipcap	10n	16V	0402C
C615	2320558	Bottom	H	2	Chipcap	82p	50V	0402C
C616	2320552	Bottom	I	4	Chipcap	47p	50V	0402C
C617	2320552	Bottom	I	4	Chipcap	47p	50V	0402C
C620	2320481	Bottom	I	2	Chipcap	1u0	6.3V	0603C
C621	2320481	Bottom	I	2	Chipcap	1u0	6.3V	0603C
C622	2320481	Bottom	I	2	Chipcap	1u0	6.3V	0603C
C623	2320481	Bottom	I	2	Chipcap	1u0	6.3V	0603C
C624	2314001	Bottom	H	2	Chipcap	470p	6V3	0402C
C625	2314001	Bottom	H	2	Chipcap	470p	6V3	0402C
C626	2314001	Bottom	H	2	Chipcap	470p	6V3	0402C
C627	2314001	Bottom	H	2	Chipcap	470p	6V3	0402C
C650	2320602	Bottom	K	3	Chipcap	4p7	50V	0402C
C652	2320564	Bottom	K	4	Chipcap	150p	50V	0402C
C653	2322015	Bottom	K	3	Chipcap	2n2	16V	0603C
C654	2320564	Bottom	K	4	Chipcap	150p	50V	0402C
C655	2320481	Bottom	K	3	Chipcap	1u0	6.3V	0603C
C656	2320520	Bottom	K	3	Chipcap	2p2	50V	0402C

Item	Code	Side	X_Y		Name			
C660	2320560	Bottom	J	3	Chipcap	100p	50V	0402C
C661	2320779	Bottom	K	1	Chipcap	100n	16V	0603
C662	2320481	Bottom	K	2	Chipcap	1u0	6.3V	0603C
C663	2320560	Bottom	J	3	Chipcap	100p	50V	0402C
C664	2320560	Bottom	K	2	Chipcap	100p	50V	0402C
C665	2320560	Bottom	I	3	Chipcap	100p	50V	0402C
C700	2320518	Bottom	G	3	Chipcap	1p8	50V	0402C
C701	2320548	Bottom	G	4	Chipcap	33p	50V	0402C
C702	2320548	Bottom	G	4	Chipcap	33p	50V	0402C
C703	2320554	Bottom	G	4	Chipcap	56p	50V	0402C
C705	2320540	Bottom	D	6	Chipcap	15p	50V	0402C
C706	2320540	Bottom	F	3	Chipcap	15p	50V	0402C
C707	2320518	Bottom	G	3	Chipcap	1p8	50V	0402C
C708	2611753	Bottom	P	3	Chipcap	33u_16V	16V	TANT_TPSW2
C709	2312243	Bottom	E	5	Chipcap	4u7	6V3	0805C
C710	2320778	Bottom	C	6	Chipcap	10n	16V	0402C
C711	2320540	Bottom	D	6	Chipcap	15p	50V	0402C
C712	2320778	Bottom	D	6	Chipcap	10n	16V	0402C
C713	2320540	Bottom	E	5	Chipcap	15p	50V	0402C
C714	2320778	Bottom	E	6	Chipcap	10n	16V	0402C
C715	2320548	Bottom	B	4	Chipcap	33p	50V	0402C
C716	2320548	Bottom	C	4	Chipcap	33p	50V	0402C
C717	2320540	Bottom	C	3	Chipcap	15p	50V	0402C
C718	2310045	Bottom	D	4	Chipcap	68n	10V	0402C
C719	2310045	Bottom	C	4	Chipcap	68n	10V	0402C
C720	2320778	Bottom	B	5	Chipcap	10n	16V	0402C
C721	2320536	Bottom	B	6	Chipcap	10p	50V	0402C
C722	2320546	Bottom	C	4	Chipcap	27p	50V	0402C
C723	2320778	Bottom	F	3	Chipcap	10n	16V	0402C
C724	2320536	Bottom	E	6	Chipcap	10p	50V	0402C
C726	2320508	Bottom	G	4	Chipcap	1p0	50V	0402C
C727	2320548	Bottom	D	4	Chipcap	33p	50V	0402C

Item	Code	Side	X_Y		Name			
C728	2318005	Bottom	E	5	Chipcap	1u	16V	Filter
C729	2320516	Bottom	C	6	Chipcap	1p5	50V	0402C
C751	2320520	Bottom	H	4	Chipcap	2p2	50V	0402C
C752	2322023	Bottom	H	4	Chipcap	2n2	16V	0603C
C753	2320540	Bottom	D	4	Chipcap	15p	50V	0402C
C754	2320540	Bottom	D	3	Chipcap	15p	50V	0402C
C755	2320778	Bottom	D	3	Chipcap	10n	16V	0402C
C756	2320546	Bottom	D	3	Chipcap	27p	50V	0402C
C780	2320560	Bottom	C	2	Chipcap	100p	50V	0402C
C781	2320560	Bottom	B	3	Chipcap	100p	50V	0402C
C790	2320526	Bottom	E	7	Chipcap	3p9	50V	0402C
D130	4341267	Top	N	6	NC7SZ08P5X 1XAND	~	~	SC70_5
D200	4370805	Top	P	4	UEM V4.4 W-DOG	~	~	uBGA168
D400	4370815	Top	L	3	UPP8M V1.1 F741987A	~	~	uBGA144_CC
D450	4341207	Top	O	7	FLASH NMP 64MBIT	4Mx16	~	uBGA40_P0.5
F100	5119019	Bottom	P	4	SM fuse F	1.5A	32V	0603_FUSE
G300	4700131	Bottom	P	7	cell capacitor	3V3	0.01MAH	XH414_II02N
G650	4350243	Bottom	J	4	VCO 3420-3840MHZ	20mA	2.7V	
G660	4510321	Bottom	J	2	VCTCXO 26MHZ+-5PPM	1.5mA	2.7V	
L101	3203801	Bottom	N	1	Chip Bead Array	2x1000R/	100MHz	0405_2_
L102	3203801	Bottom	O	1	Chip Bead Array	2x1000R/	100MHz	0405_2_
L104	3203801	Top	P	2	Chip Bead Array	2x1000R	100MHz	0405_2_
L132	3203741	Top	L	7	Ferrite Bead	600R	100MHz	0603_BLM
L151	3203801	Top	C	2	Chip Bead Array	2x1000R	100MHz	0405_2_
L260	3203741	Top	R	6	Ferrite Bead	600R	100MHz	0603_BLM
L261	3203741	Top	R	4	Ferrite Bead	600R	100MHz	0603_BLM
L262	3203741	Top	R	5	Ferrite Bead	600R	100MHz	0603_BLM
L263	3203741	Top	R	5	Ferrite Bead	600R	100MHz	0603_BLM
L264	3203741	Top	R	5	Ferrite Bead	600R	100MHz	0603_BLM
L265	3203741	Top	R	5	Ferrite Bead	600R	100MHz	0603_BLM
L420	3645347	Top	N	5	Chip coil Q30/2MHZ	10uH	~	603
L500	3646091	Bottom	E	2	Chip coil	6n8H	~	0402L

Item	Code	Side	X_Y		Name			
L501	3646067	Bottom	G	2	Chip coil Q29/800M	18nH	~	0402L
L502	3646065	Bottom	D	2	Chip coil Q31/800M	12nH	~	0402L
L503	3646091	Bottom	D	2	Chip coil Q27/800M	6n8H	~	0402L
L550	3646051	Bottom	E	3	Chip coil Q28/800M	3n9H	~	0402L
L551	3646091	Bottom	G	2	Chip coil Q27/800M	6n8H	~	0402L
L552	3646051	Bottom	D	3	Chip coil Q28/800M	3n9H	~	0402L
L700	3646053	Bottom	G	4	Chip coil Q28/800M	4n7H	~	0402L
L701	3646053	Bottom	G	4	Chip coil Q28/800M	4n7H	~	0402L
L702	3646051	Bottom	G	3	Chip coil Q28/800M	3n9H	~	0402L
L704	3203715	Bottom	B	6	Ferrite Bead	240R	100MHz	BK1005
L705	3646059	Bottom	B	6	Chip coil Q28/800M	5n6H	100MHz	0402L
L750	4551015	Bottom	C	4	Dir.coup	897.5/ 1747.5/ 1880M	100MHz	LDC15D
N320	4341137	Top	Q	6	DC/DC Conv LM3353	4.1V	480MA	MSOP_10
N600	4370781	Bottom	H	3	HAGAR 5	~	~	uBGA80_H1.7
N700	4350297	Bottom	C	5	PW AMP RF9203E	~	~	H1.65
R102	1430804	Top	Q	3	Resistor 5% 63mW	100k	~	0402R
R152	1430762	Top	P	1	Resistor 5% 63mW	2k2	~	0402R
R153	1825033	Top	P	2	Chip Varistor	14V/46V	~	0402_VAR
R154	1430778	Top	N	2	Resistor 5% 63mW	10k	~	0402R
R155	1430804	Top	Q	3	Resistor 5% 63mW	100k	~	0402R
R156	1620105	Top	O	2	Res Network	2x2k2	~	MNR02
R157	1620105	Top	P	2	Res Network	2x2k2	~	MNR02
R159	1825031	Bottom	N	1	Varistor Array	2XVWM	16V	0405_2
R161	1825031	Bottom	O	1	Varistor Array	2XVWM	16V	0405_2
R164	1620103	Top	K	2	Chipres Array	2x22R	~	0404_R_SR
R165	1620103	Top	O	2	Chipres Array	2x22R	~	0404_R_SR
R166	1430137	Top	N	2	Chipres	1k0	0W06	0402R
R167	1430137	Top	N	2	Chipres	1k0	0W06	0402R
R200	1419003	Top	R	4	Chipres	0R22	0W5	1210_R
R202	1620067	Top	N	4	Res Network	4x100k	0W06	MNR04
R206	1430770	Top	N	4	Resistor 5% 63mW	4k7	~	0402R

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R207	1430770	Top	N	3	Resistor 5% 63mW	4k7	~	0402R
R301	1430770	Bottom	B	8	Resistor 5% 63mW	4k7	~	0402R
R310	1430693	Top	L	2	Chipres	5R6	~	0402R
R311	1430804	Bottom	P	6	Resistor 5% 63mW	100k	~	0402R
R313	1620027	Top	M	6	Res Network	2x47R	0W06	0404_R_SR
R325	1430804	Top	R	6	Resistor 5% 63mW	100k	~	0402R
R326	1430754	Top	R	6	Resistor 5% 63mW	1k0	~	0402R
R327	1430726	Top	R	7	Resistor 5% 63mW	100R	~	0402R
R350	1413850	Top	B	2	Chipres	4R7	~	0805R
R352	1430804	Top	L	2	Resistor 5% 63mW	100k	~	0402R
R388	4120071	Top	N	2	Sim Filter BGA8	~	~	uBGA8
R421	1430778	Top	N	5	Resistor 5% 63mW	10k	~	0402R
R422	1430790	Top	O	5	Resistor 5% 63mW	27k	~	0402R
R423	1430778	Top	N	5	Resistor 5% 63mW	10k	~	0402R
R450	1430770	Top	N	5	Resistor 5% 63mW	4k7	~	0402R
R500	1430726	Bottom	E	2	Resistor 5% 63mW	100R	~	0402R
R501	1430700	Bottom	E	2	Resistor 5% 63mW	10R	~	0402R
R502	1430846	Bottom	E	1	Resistor 1% 63mW	2k7	~	0402R
R550	1430740	Bottom	E	3	Resistor 5% 63mW	330R	~	0402R
R551	1430700	Bottom	E	4	Resistor 5% 63mW	10R	~	0402R
R558	1430846	Bottom	E	3	Resistor 1% 63mW	2k7	~	0402R
R600	1620081	Bottom	I	2	RES NETWORK	4x22R	0W03	MNR04
R602	1430770	Bottom	I	2	Resistor 5% 63mW	4k7	~	0402R
R603	1430846	Bottom	G	3	Resistor 1% 63mW	2k7	~	0402R
R604	1430770	Bottom	H	2	Resistor 5% 63mW	4k7	~	0402R
R606	1430784	Bottom	H	1	Resistor 5% 63mW	15k	~	0402R
R607	1620065	Bottom	I	4	Res Network	4x5.6k	0W06	MNR04
R608	1430804	Bottom	I	4	Resistor 5% 63mW	100k	~	0402R
R609	1430804	Bottom	I	4	Resistor 5% 63mW	100k	~	0402R
R650	1430137	Bottom	K	4	Chipres	1k0	0W06	0402R
R651	1430907	Bottom	K	4	Chipres	11k	0W06	0402R
R652	1430700	Bottom	K	3	Resistor 5% 63mW	10R	~	0402R

Item	Code	Side	X_Y		Name			
R660	1430137	Bottom	J	3	Chipres	1k0	~	0402R
R661	1430774	Bottom	K	1	Resistor 5% 63mW	6k8	~	0402R
R662	1430762	Bottom	K	2	Resistor 5% 63mW	2k2	~	0402R
R663	1430804	Bottom	L	2	Resistor 5% 63mW	100k	~	0402R
R700	1430734	Bottom	G	4	Resistor 5% 63mW	220R	~	0402R
R701	1620121	Bottom	G	3	Res Network	2x220R	0W06	MNR02_SR
R702	1620515	Bottom	C	6	Res Network	870R/ 5R77/ 870R	0W04	0404_RAC10
R703	1430714	Bottom	D	4	Resistor 5% 63mw	33R	~	0402R
R704	1430714	Bottom	C	4	Resistor 5% 63mw	33R	~	0402R
R705	1620515	Bottom	C	6	Res Network	870R/ 5R77/ 870R	0W04	0404_RAC10
R709	1430734	Bottom	C	4	Resistor 5% 63mW	220R	~	0402R
R710	1430734	Bottom	G	4	Resistor 5% 63mW	220R	~	0402R
R751	1430770	Bottom	D	4	Resistor 5% 63mW	4k7	~	0402R
R752	1430788	Bottom	H	4	Resistor 5% 63mW	22k	~	0402R
R753	1430770	Bottom	D	3	Resistor 5% 63mW	4k7	~	0402R
R754	1430764	Bottom	D	3	Resistor 5% 63mW	3k3	~	0402R
R755	1430718	Bottom	D	3	Resistor 5% 63mW	47R	~	0402R
R756	1430726	Bottom	H	4	Resistor 5% 63mW	100R	~	0402R
S300	4341087	Top	R	8	HALL IC SWITCH TLE4917	~	~	SOT23_6_H1. 1S
S302	5209009	Bottom	A	7	SM SW TACT SPST-NO	~	~	
T650	3640423	Bottom	I	3	Balun Trans	~	~	TRANS_LDB1 5
T700	4550137	Bottom	F	3	Transf Balun	~	~	TRANS_LDB1 5
V100	4113721	Bottom	P	6	TVS DI 1PMT16AT3	~	~	CASE_457
V108	4110475	Bottom	P	2	SCH DI RB521S-30	~	~	EMD2
V130	4350289	Bottom	I	6	BLUETOOTH LRB-2	~	~	BT102_X
V324	4860311	Top	E	2	LED LWY87C WHITE	~	~	LED_LWY873
V325	4860311	Top	E	7	LED LWY87C WHITE	~	~	LED_LWY873
V350	4210043	Top	L	2	TR DTC143ZE	~	~	EM3

Item	Code	Side	X_Y		Name			
V351	4860101	Bottom	C	7	IRDA TFDU5102	~	~	TFDU5102
V500	4210277	Bottom	D	2	TR BGB420	~	~	SOT343_R
V550	4210261	Bottom	D	3	TR BGA428	~	~	SOT_363
V660	4210100	Bottom	K	2	Tr NPN 30V	100mA	100MHz	SOT323
V750	4110079	Bottom	D	4	SCH DIX2 HSMS282C	~	~	SOT323
X100	5469171	Bottom	P	2	SM conn 2X10M P0.5	~	~	
X101	5409141	Bottom	Q	5	Sm Battery Conn	~	~	4pol
X130	5409193	Bottom	D	7	Antenna Spacer Pad	~	~	
X131	5409193	Bottom	E	7	Antenna Spacer Pad	~	~	
X300	5469175	Top	C	2	SM conn BTB 2X5 F	~	~	
X303	5469135	Top	L	6	SM conn 2X8 SPR	~	~	
X386	5409181	Bottom	N	5	SM SIM conn 2X3POL	~	~	
X500	5409193	Bottom	B	2	Antenna Spacer Pad	~	~	
X501	5409193	Bottom	A	4	Antenna Spacer Pad	~	~	
X505	5409193	Top	B	2	Antenna Spacer Pad	~	~	
Z301	4120031	Top	L	5	EMI/ESD Filter	~	~	uBGA24
Z500	4512133	Bottom	C	3	Ant.switch	880-960/ 1710- 1990MHz	~	
Z501	4511235	Bottom	G	2	SAW Filter	942.5MHz	~	
Z520	4511181	Bottom	D	2	SAW Filter	925-960/ 1805- 1880MHz	~	
Z551	4511241	Bottom	F	2	SAW Filter	1842.5MH Z	~	
Z700	4511237	Bottom	F	4	SAW Filter	897.5MHz	~	