

BOM Explosion Report

Item Number: EA-555008-013

Description: TRANSMIT MODULE,935-941 MHZ,MASTR V

Item Revision: - M17762

Date as of: 07/12/2017 09:43:51 AM EDT

Level	Number	Description	Item Number	Qty	Ref Des
0	EA-555008-013	TRANSMIT MODULE,935-941 MHZ,MASTR V	EA-555008-013		
.. 1	AD-EA-555008-DOC	Assembly Drawing,Transmitter Module,MASTR V	AD-EA-555008-DOC	1	
.. 1	PS01-EA-555008-DOC	Product Acceptance Specification: MASTR V Transm	PS01-EA-555008-DOC	1	
.. 1	TS-EA-555008-013	TEST SPECIFICATION,TX MODULE, 900 MHZ,MASTR V	TS-EA-555008-013	1	
.. 1	11170-0215-01	INSERT, PACKAGING	11170-0215-01	1	
.. 2	D11170-0215	INSERT, PACKAGING	D11170-0215	1	
.. 1	11170-0216-01	BOX, PACKAGING	11170-0216-01	1	
.. 2	D11170-0216	BOX, PACKAGING	D11170-0216	1	
.. 1	MA-555308-001	Assembly,Transmitter Base Casting	MA-555308-001	1 1	
.. 2	AD-MA-555308-DOC	Assembly,Transmitter Base,MASTR V	AD-MA-555308-DOC	1	
.. 2	FM-555470-002	Base,Transmitter Casting, MASTR V	FM-555470-002	1.0 1	
... 3	AR-FM-555470	Artwork Marking,Tx & Rx,MASTR V	AR-FM-555470	1	
... 3	PS-FM-555470-DOC	Base,Rx/Tx Casting,MASTR V	PS-FM-555470-DOC	1	
.. 2	FM-555446-001	Handle,Offset Module Pull	FM-555446-001	1.0 2	
... 3	PS-FM-555446-DOC	Handle,Offset Module Pull	PS-FM-555446-DOC	1	
.. 2	FM-555444-001	Plate,Mounting,EMI/RFI Shielding,MASTR V	FM-555444-001	1.0 3	
... 3	PS-FM-555444-DOC	Plate,Mounting,EMI/RFI Shielding,MASTR V	PS-FM-555444-DOC	1	
.. 2	SC-555705-001	Screw,Panel M3x0.5 - 13.5mm	SC-555705-001	2.0	
... 3	PS-SC-555705	Screw,Captive Fastener,Panel	PS-SC-555705	1	
.. 2	2079359-1	SCREW,MACH,FLAT HD,HEXALOBULAR SOCKET	2079359-1	2.0	
... 3	PS-2079359-DOC	SCREW,MACH,FLAT HD,HEXALOBULAR SOCKET	PS-2079359-DOC	1	
.. 1	MA-555483-001	Assembly,Transmitter Cover Casting	MA-555483-001	1 2	
.. 2	AD-MA-555483-DOC	Assembly,Transmitter Cover Casting,MASTR V	AD-MA-555483-DOC	1	
.. 2	FM-555481-001	Cover,Transmitter Casting,MASTR V	FM-555481-001	1.0 1	
... 3	PS-FM-555481-DOC	Cover,Transmitter Casting,MASTR V	PS-FM-555481-DOC	1	
.. 1	FM-555482-001	Plate,Rear,Transmitter Module,MASTR V	FM-555482-001	1 3	
.. 2	AR-FM-555482-DOC	Artwork,Rear Plate,Transmitter,MASTR V	AR-FM-555482-DOC	1	
.. 2	PS-FM-555482-DOC	Plate,Rear,Transmitter Module,MASTR V	PS-FM-555482-DOC	1	
.. 1	FM-555447-001	Gasket,Perpendicular Shielding	FM-555447-001	1 4	
.. 2	PS-FM-555447	Gasket,Perpendicular Shielding,MASTR V	PS-FM-555447	1	
.. 1	CB-555126	ASSEMBLY,TRANSMITTER,900 MHZ,MASTR V	CB-555126	1 6	
.. 2	WD-CB-555122-DOC	SCHEMATIC, TRANSMIT, 700/800/900 MHZ, MASTR V	WD-CB-555122-DOC	1	
.. 2	PB-555122-04	PWB,TRANSMIT 700/800/900 MHZ,MASTR V	PB-555122-04	1 A1	
... 3	PS-PB-555122-DOC	Product Specification,PWB,Tx 700/800 MHZ,MASTR V	PS-PB-555122-DOC	1	
.. 2	CP103432V104J	CAPACITOR,100K PF,5%,16V,X7R,ROHS COMPLNT	CP103432V104J	53	C1-C4,C6,C7,C12-C20,C41,C58,C73,C78,C83,C85,C92,C94,C95,C181,C182,C510,C516,C518,C529,C546,C550,C567,C582,C583,C589,C590,C623,C624,C631,C632,C634,C642,C655,C667,C668,C676,C679-C681,C728,C746,C1000
... 3	PS-CP103432-DOC	CAPACITOR,XR7.ROHS	PS-CP103432-DOC	1	
.. 2	CP102261V106	CAP CER X5R 10UF 6.3V 20% 0805	CP102261V106	45	C5,C8-C11,C88,C89,C93,C549,C608,C610,C611,C677,C684,C689-C691,C693,C695,C730,C733,C737,C738,C755,C879,C886,C897,C902,C918,C919,C923,C924,C928,C929,C933,C934,C951,C952,C958,C962,C972,C976,C989,C994,C2146
... 3	PS-CP102261-DOC	CAPACITOR,MONLITHIC,X5R	PS-CP102261-DOC	1	
.. 2	CP-103458-001000	CAP CER COG 1000PF 50V 5% 0603	CP-103458-001000	21	C21,C22,C26-C28,C39,C40,C42,C53,C55,C90,C91,C180,C183,C532,C560,C578,C636,C660,C669,C725
... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP-103458-033	CAP CER COG 33PF 50V 5% 0603	CP-103458-033	3	C36,C38,C77
... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP-103458-039	CAPACITOR,CER,SMT,NPO,0603,50V,39PF +/-5%	CP-103458-039	1	C37
... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP-103458-012	CAPACITOR,CER,SMT,NPO,0603,50V,12PF +/-5%	CP-103458-012	7	C44,C585,C586,C592,C593,C663,C664
... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP-103458-047	CAP CER COG 47PF 50V 5% 0603	CP-103458-047	22	C45,C46,C57,C59,C70-C72,C74,C76,C79,C80,C82,C84,C525-C527,C559,C564,C565,C625,C671,C702
.. 2	CP-103458-3R3	CAPACITOR,CER,SMT,NPO,0603,50V,3.3+/- .5PF	CP-103458-3R3	2	C47,C68

... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP-103458-027	CAPACITOR,CER,SMT,NPO,0603,50V,27PF +/-5%	CP-103458-027	1	C54
... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP-103458-6R8	CAPACITOR,CER,SMT,NPO,0603,50V,6.8PF+/-5%	CP-103458-6R8	1	C56
... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP-103458-3R9	CAPACITOR,CER,SMT,NPO,0603,50V,3.9+/-5PF	CP-103458-3R9	2	C61,C75
... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP-103458-2R2	CAP CER COG 2.2PF 50V +/-0.25PF 0603	CP-103458-2R2	8	C62-C64,C69,C540-C543
... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP-016071-015	CAP CER COG 1.5PF 250V +/-0.05PF 0603	CP-016071-015	2	C66,C524
.. 2	CP-103458-018	CAPACITOR,CER,SMT,NPO,0603,50V,18PF +/-5%	CP-103458-018	1	C81
... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP-012138-104	CAP,CER,X7R,0402,ROHS,16V,100NF+/-10%	CP-012138-104	149	C100-C106,C108,C109,C152-C161,C176-C179,C535,C536,C538,C594,C596,C629,C700,C701,C802-C823,C825-C842,C847-C859,C861-C870,C880-C884,C887,C888,C898-C901,C903-C909,C940,C942,C944,C948-C950,C953,C955-C957,C959-C961,C963-C968,C973-C975,C977-C981,C990,C993,C1002,C1003,C1005,C1006,C1014,C1015,C1017,C1022
... 3	PS-CP-012138-DOC	CAPACITOR,CERAMIC,X7R,0402,10%,ROHS	PS-CP-012138-DOC	1	
.. 2	CP-012110-102	CAPACITOR,CER,0402,50V,COG,1000PF,+/-5%	CP-012110-102	7	C151,C544,C598,C599,C628,C889,C1016
... 3	PS-CP-012110-DOC	CAPACITOR,CERAMIC,SMT,NPO,0402,ROHS	PS-CP-012110-DOC	1	
.. 2	CP-102261-10U	CAPACITOR,CER,1206,10UF,25V,X5R,ROHS	CP-102261-10U	37	C501,C503,C533,C603,C639,C674,C675,C683,C686,C694,C703,C704,C706,C707,C709,C710,C712,C716,C717,C719,C720,C729,C732,C735,C736,C739,C740,C754,C892,C914,C915,C921,C922,C926,C927,C931,C932
... 3	PS-CP102261-DOC	CAPACITOR,MONLITHIC,X5R	PS-CP102261-DOC	1	
.. 2	CP-103459-037	CAPACITOR,TANT,10UF,20V,10%,ROHS	CP-103459-037	4	C502,C504,C604,C697
... 3	PS-CP103459-DOC	Capacitor,Tant,SMT,ROHS Cmplnt	PS-CP103459-DOC	1	
.. 2	CP-010376-103	CAPACITOR,SMT,PPS STK FILM,ROHS	CP-010376-103	5	C505,C506,C692,C742,C2147
.. 2	CP-103459-145	CAP TANT 47UF 25V +/-20% 7343-31	CP-103459-145	10	C507-C509,C511,C513,C607,C743-C745,C747
... 3	PS-CP103459-DOC	Capacitor,Tant,SMT,ROHS Cmplnt	PS-CP103459-DOC	1	
.. 2	CP-103459-061	CAPACITOR,TANT,6.8UF 35V 10%	CP-103459-061	3	C512,C514,C713
... 3	PS-CP103459-DOC	Capacitor,Tant,SMT,ROHS Cmplnt	PS-CP103459-DOC	1	
.. 2	CP-103459-059	CAPACITOR,TANT,3.3UF 35V 10%	CP-103459-059	8	C515,C517,C575,C630,C673,C682,C5150,C5170
... 3	PS-CP103459-DOC	Capacitor,Tant,SMT,ROHS Cmplnt	PS-CP103459-DOC	1	
.. 2	C13-9130-006	CAP HIGH Q,COG 0.6PF 250V +/-0.05PF 0603	C13-9130-006	1	C520
.. 2	CP-016071-056	CAP CER COG 5.6PF 250V +/-0.05PF 0603	CP-016071-056	1	C521
.. 2	CP-016071-033	CAP,CER,HI-Q,0603,250V,3.3PF	CP-016071-033	1	C522
.. 2	CP-016071-018	CAP CER COG 1.8PF 250V +/-0.05PF 0603	CP-016071-018	1	C523
.. 2	CP-013721-1001U0	CAPACITOR,METAL FILM PEN,1.0UF,100V	CP-013721-1001U0	5	C528,C547,C548,C553,C556
... 3	PS-CP-013721-DOC	Capacitor,SMT,Metal Film,Pen,ROHS	PS-CP-013721-DOC	1	
.. 2	CP-016071-005	CAP HI-Q 0.5PF 250V +/-0.05PF 0603	CP-016071-005	2	C530,C572
.. 2	CP-016196-220	CAP,TANT,SMT,220UF,+/-20%,4V,C CASE	CP-016196-220	4	C531,C635,C687,C688
.. 2	CP-012110-470	CAPACITOR,CER,0402,50V,COG,47PF,+/-5%	CP-012110-470	7	C534,C537,C539,C545,C557,C558,C645
.. 2	CP-103458-100	CAP CER COG 100PF 50V 5% 0603	CP-103458-100	10	C551,C576,C577,C602,C652,C653,C665,C666,C698,C699
.. 2	CP-016077-150	CAP FILM PPS 0.15UF 50V 5% 2416	CP-016077-150	3	C552,C650,C657
.. 2	CP103458V4R7J	CAPACITOR,NPO,SMT,4.7PF,5%ROHS Cmplnt	CP103458V4R7J	4	C554,C555,C661,C662
... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP102261V110	CAP,CER,SMT,0603,1.0UF,+/-10%,10V,X5R	CP102261V110	5	C561,C579,C619,C727,C920
... 3	PS-CP102261-DOC	CAPACITOR,MONLITHIC,X5R	PS-CP102261-DOC	1	
.. 2	CP-016071-047	CAP CER COG 4.7PF 250V +/-0.05PF 0603	CP-016071-047	3	C562,C570,C571
.. 2	CP-016071-068	CAP CER COG 6.8PF 250V +/-0.1PF 0603	CP-016071-068	1	C563
.. 2	CP-016071-022	CAP CER COG 2.2PF 250V +/-0.05PF 0603	CP-016071-022	1	C568
.. 2	CP-013762-470004	CAP POLYMER TANT 470UF 4V 20% 7343-31	CP-013762-470004	1	C574
... 3	PS-CP-013762-DOC	Capacitor,Tantalum,Polymer,SMT,ROHS	PS-CP-013762-DOC	1	
.. 2	CP-103458-330	CAPACITOR,CERAMIC,0603,NPO,ROHS,330+/-5%	CP-103458-330	12	C580,C581,C584,C587,C588,C591,C601,C618,C637,C638,C647,C659
.. 2	CP-012138-103	CAP,CER,X7R,0402,ROHS,25V,10NF+/-10%	CP-012138-103	20	C595,C597,C605,C626,C941,C943,C947,C988,C1024-C1035
... 3	PS-CP-012138-DOC	CAPACITOR,CERAMIC,X7R,0402,10%,ROHS	PS-CP-012138-DOC	1	
.. 2	CP-013721-100180	CAPACITOR,METAL FILM PEN,0.18UF,100V	CP-013721-100180	1	C600
... 3	PS-CP-013721-DOC	Capacitor,SMT,Metal Film,Pen,ROHS	PS-CP-013721-DOC	1	
.. 2	CP-103458-082	CAPACITOR,CER,SMT,NPO,0603,50V,82PF +/-5%	CP-103458-082	1	C606
... 3	PS-CP103458-DOC	Capacitor,NPO,SMT	PS-CP103458-DOC	1	
.. 2	CP-103458-010	CAP CER COG 10PF 50V 5% 0603	CP-103458-010	3	C614,C648,C649

.. 2	CP103432V103J	CAPACITOR,10K PF,5%,50V,X7R,ROHS CMLPLNT	CP103432V103J	18	C620-C622,C685,C696,C705,C708,C711,C718,C721,C731,C734,C741,C756,C985,C986,C999,C1013
... 3	PS-CP103432-DOC	CAPACITOR,XR7.ROHS	PS-CP103432-DOC	1	
.. 2	CP-012110-101	CAP CER COG 100PF 50V 5% 0402	CP-012110-101	1	C627
... 3	PS-CP-012110-DOC	CAPACITOR,CERAMIC,SMT,NPO,0402,ROHS	PS-CP-012110-DOC	1	
.. 2	CP102261V22	CAP,CER,SMT,1210,22UF,10V,+/-20%,X5R	CP102261V22	2	C640,C641
... 3	PS-CP102261-DOC	CAPACITOR,MONLITHIC,X5R	PS-CP102261-DOC	1	
.. 2	CP-016077-560	CAP,FILM,SM,3925,560 NF	CP-016077-560	2	C651,C654
.. 2	CP103459V23	CAPACITOR,TANT,10UF,16V,+/-10%,2.8 ESR	CP103459V23	1	C658
... 3	PS-CP103459-DOC	Capacitor,Tant,SMT,ROHS Cmplnt	PS-CP103459-DOC	1	
.. 2	CP-016071-027	CAP CER COG 2.7PF 250V +/-0.05PF 0603	CP-016071-027	1	C670
.. 2	CP-103432-00473J	CAPACITOR,CER,SMT,X7R,0603,25V,47,000 PF +/-5%	CP-103432-00473J	1	C678
... 3	PS-CP103432-DOC	CAPACITOR,XR7.ROHS	PS-CP103432-DOC	1	
.. 2	CP-103458-470	CAPACITOR,CERAMIC,0603,NPO,ROHS,470+/-5%	CP-103458-470	1	C714
.. 2	CP-012110-561	CAP,CER,NPO,0402,ROHS,50V,560PF+/-5%	CP-012110-561	3	C801,C1001,C1004
... 3	PS-CP-012110-DOC	CAPACITOR,CERAMIC,SMT,NPO,0402,ROHS	PS-CP-012110-DOC	1	
.. 2	CP-102261-474	CAPACITOR,CER,0603,.47UF,10V,X5R,ROHS	CP-102261-474	1	C890
... 3	PS-CP102261-DOC	CAPACITOR,MONLITHIC,X5R	PS-CP102261-DOC	1	
.. 2	CP-102261-475	CAPACITOR,CER,0805,.47UF,16V,X5R,ROHS	CP-102261-475	1	C894
... 3	PS-CP102261-DOC	CAPACITOR,MONLITHIC,X5R	PS-CP102261-DOC	1	
.. 2	CP-012138-222	CAP,CER,X7R,0402,ROHS,50V,2.2NF+/-10%	CP-012138-222	1	C916
... 3	PS-CP-012138-DOC	CAPACITOR,CERAMIC,X7R,0402,10%,ROHS	PS-CP-012138-DOC	1	
.. 2	CP-012138-473	CAP,CER,X7R,0402,ROHS,25V,47NF+/-10%	CP-012138-473	1	C917
... 3	PS-CP-012138-DOC	CAPACITOR,CERAMIC,X7R,0402,10%,ROHS	PS-CP-012138-DOC	1	
.. 2	CP-012110-151	CAPACITOR,CER,0402,50V,COG,150PF,+/-5%	CP-012110-151	1	C925
... 3	PS-CP-012110-DOC	CAPACITOR,CERAMIC,SMT,NPO,0402,ROHS	PS-CP-012110-DOC	1	
.. 2	CP-012138-332	CAP,CER,X7R,0402,ROHS,50V,3.3NF+/-10%	CP-012138-332	1	C930
... 3	PS-CP-012138-DOC	CAPACITOR,CERAMIC,X7R,0402,10%,ROHS	PS-CP-012138-DOC	1	
.. 2	CP-012110-820	CAPACITOR,CER,0402,50V,COG,82PF,+/-5%	CP-012110-820	1	C987
... 3	PS-CP-012138-DOC	CAPACITOR,CERAMIC,X7R,0402,10%,ROHS	PS-CP-012138-DOC	1	
.. 2	CP-013721-100330	CAPACITOR,SMT,METL FILM,PEN,ROHS,.33UF,1	CP-013721-100330	1	C2150
... 3	PS-CP-013721-DOC	Capacitor,SMT,Metal Film, Pen, RoHS	PS-CP-013721-DOC	1	
.. 2	DS-016183-020	SCHOTTKY RECTIFIER, 20V, 1A, MBR120V	DS-016183-020	2	D501,D502
.. 2	VR-016123-001	DIODE,VARICAP	VR-016123-001	4	D503-D506
.. 2	DS-012296-001	DIODE,SCHOTTKY,HOTCARRIER,30V,SOT23,ROHS	DS-012296-001	2	D507,D827
... 3	VS-DS-012296-DOC	DIODE,SCHOTTKY,HOTCARRIER,30V,SOT23,ROHS	VS-DS-012296-DOC	1	
.. 2	DD-016147-001	LED,3MM,RGT ANGLE,TRI-COLOR	DD-016147-001	2	D801,D802
... 3	VS-DD-016147-DOC	LED,3mm,Rgt Angle,Tri-color	VS-DD-016147-DOC	1	
.. 2	DD-012466-002	DIODE,SMT,LED,2012,RED,ROHS	DD-012466-002	9	D805-D812,D823
... 3	VS-DD-012466-DOC	DIODE,SMT,LED,2012,ROHS	VS-DD-012466-DOC	1	
.. 2	DA-015266-001	DIODE,TVS,400W,14V,UNI-PLR,DO-214AC,ROHS	DA-015266-001	2	D813,D814
... 3	VS-DA-015266-DOC	DIODE,TVS,400W,14V,UNI-PLR,DO-214AC,ROHS	VS-DA-015266-DOC	1	
.. 2	DI-012307-001	DIODE,SW,DUAL,COMMON ANODE,SOT-23,ROHS	DI-012307-001	1	D824
... 3	VS-DI-012307-DOC	Diode,SW,Dual,Switching,SOT-23,RoHS	VS-DI-012307-DOC	1	
.. 2	DI-016115-001	DIODE,SWITCHING,SERIES PAIR,BAV99	DI-016115-001	1	D826
... 3	VS-DI-016115-DOC	Diode,Switching,Series Pair,BAV99	VS-DI-016115-DOC	1	
.. 2	G20-0029-001	CERAMIC FILTER, CF=938MHZ BW=6.0MHZ MIN	G20-0029-001	1	FL1
.. 2	G25-0030-501	FILTER LOW PASS DC TO 850MHZ 50 OHM	G25-0030-501	1	FL2
.. 2	FL-016127-016	FILTER FEEDTHRU 2200PF 16V 0603	FL-016127-016	6	FL801,FL810-FL813,FL815
.. 2	G13-0021-207	FILTER EMI T-TYPE LC 200 MHZ CUT-OFF	G13-0021-207	10	FL814,FL816-FL823,FL825
.. 2	FL-019035-115D2K	FILTER,SAW,115.2MHZ +/-1 BP,6.6DBI-LOSS	FL-019035-115D2K	1	FL5009
.. 2	CN-012348-010	CONNECTOR,HDR,VERT,2 ROW,10 POSN,ROHS	CN-012348-010	2	J11,J811
... 3	PS-CN-012348-DOC	CONNECTOR,HDR,VERT,2 ROW,ROHS	PS-CN-012348-DOC	1	
.. 2	CN-016097-001	CONN,SMB,RA BULKHEAD	CN-016097-001	1	J25
.. 2	CN-011752-002	Z-PACK 2MM HM,GROUND RETURN LOWER SHEILD	CN-011752-002	1	J800Z
... 3	VS-CN-011752-002-DOC	Z-PACK 2mm HM,GROUND RETURN LOWER SHEILD	VS-CN-011752-002-DOC	1	
.. 2	CN-011752-001	CONNECTOR,RCPT,RTANG,Z-PACK,2MM,SHLD	CN-011752-001	1	J800
... 3	PS-CN-011752-DOC	Connector,RCPT,RTANG,Z-PACK,2mm,SHLD	PS-CN-011752-DOC	1	
.. 2	CN-012499-004	CONNECTOR,HDR,VERT,2.5MM,1 X 4 POS,ROHS	CN-012499-004	1	J801
... 3	PS-CN-012499-DOC	CONNECTOR,HDR,VERT,2.5MM,ROHS	PS-CN-012499-DOC	1	
.. 2	CN-012348-014	CONNECTOR,HDR,VERT,2 ROW,14 POSN,ROHS	CN-012348-014	1	J808
... 3	PS-CN-012348-DOC	CONNECTOR,HDR,VERT,2 ROW,ROHS	PS-CN-012348-DOC	1	
.. 2	CN-012310-001	CONNECTOR,VERT,RJ-45,10/100 BASE-TX,ROHS	CN-012310-001	1	J812
... 3	PS-CN-012310-DOC	Connector,VERT,RJ-45,10/100 BASE-TX,RoHS	PS-CN-012310-DOC	1	

.. 2	LX-010265-680	INDUCTOR,SMT,WW.1008,ROHS,68NH	LX-010265-680	2	L1,L2
... 3	PS-LX-010265-DOC	Inductor,SMT,5%,WW,1008,RoHS	PS-LX-010265-DOC	1	
.. 2	LX-010265-180	INDUCTOR,SMT,WW.1008,ROHS,18NH	LX-010265-180	1	L3
... 3	PS-LX-010265-DOC	Inductor,SMT,5%,WW,1008,RoHS	PS-LX-010265-DOC	1	
.. 2	LX-010265-102	INDUCTOR,SMT,WW.1008,ROHS,1000NH	LX-010265-102	1	L4
... 3	PS-LX-010265-DOC	Inductor,SMT,5%,WW,1008,RoHS	PS-LX-010265-DOC	1	
.. 2	L45-6054-151	INDUCTOR 150NH 2%	L45-6054-151	2	L5,L6
.. 2	L45-6054-390	INDUCTOR 39NH 2%	L45-6054-390	1	L7
.. 2	L45-6054-270	INDUCTOR 27NH 2%	L45-6054-270	1	L8
.. 2	LX-010277-018	INDUCTOR,SMT,WW,0603,18NH	LX-010277-018	1	L11
... 3	PS-LX-010277-DOC	Inductor,SMT,5%,WW,1608,RoHS	PS-LX-010277-DOC	1	
.. 2	LX-010277-015	INDUCTOR,SMT,WW,0603,15NH	LX-010277-015	2	L12,L13
... 3	PS-LX-010277-DOC	Inductor,SMT,5%,WW,1608,RoHS	PS-LX-010277-DOC	1	
.. 2	0603CS-8N7XGLU	INDUCTOR, FIXED, SMT, 8.7nH, 2%	0603CS-8N7XGLU	3	L14,L15,L17
... 3	0603CS-ROHS-DOC	ROHS COMPLIANT	0603CS-ROHS-DOC	1	
.. 2	0603CS-12NXGLU	INDUCTOR, FIXED, SMT, 12nH, 2%	0603CS-12NXGLU	1	L16
... 3	0603CS-ROHS-DOC	ROHS COMPLIANT	0603CS-ROHS-DOC	1	
.. 2	LX-010277-068	INDUCTOR,SMT,WW,0603,68NH	LX-010277-068	3	L18,L31,L33
... 3	PS-LX-010277-DOC	Inductor,SMT,5%,WW,1608,RoHS	PS-LX-010277-DOC	1	
.. 2	LX-014000-1R2	INDUCTOR,SMT,WW,0603,ROHS,1.2NH	LX-014000-1R2	1	L19
... 3	PS-LX-014000-DOC	Inductor,SMT,WW,0603,RoHS	PS-LX-014000-DOC	1	
.. 2	LX-010277-033	INDUCTOR,SMT,WW,0603,33NH	LX-010277-033	5	L20,L30,L506,L507,L41,L2
... 3	PS-LX-010277-DOC	Inductor,SMT,5%,WW,1608,RoHS	PS-LX-010277-DOC	1	
.. 2	LX-013961-270	INDUCTOR,SMT,WW,0805,ROHS,270NH	LX-013961-270	10	L23-L27,L501-L505
... 3	PS-LX-013961-DOC	Inductor,SMT,WW,0805,RoHS	PS-LX-013961-DOC	1	
.. 2	LX-010277-027	INDUCTOR,SMT,WW,0603,27NH	LX-010277-027	3	L32,L34,L609
... 3	PS-LX-010277-DOC	Inductor,SMT,5%,WW,1608,RoHS	PS-LX-010277-DOC	1	
.. 2	LX-010265-222	INDUCTOR,SMT,WW.1008,ROHS,2200NH	LX-010265-222	2	L35,L820
... 3	PS-LX-010265-DOC	Inductor,SMT,5%,WW,1008,RoHS	PS-LX-010265-DOC	1	
.. 2	LX-010265-152	INDUCTOR,SMT,WW.1008,ROHS,1500NH	LX-010265-152	1	L36
... 3	PS-LX-010265-DOC	Inductor,SMT,5%,WW,1008,RoHS	PS-LX-010265-DOC	1	
.. 2	LX-010265-10U	INDUCTOR,SMT,10UH,5%,WW,1008,ROHS	LX-010265-10U	2	L37,L839
... 3	PS-LX-010265-DOC	Inductor,SMT,5%,WW,1008,RoHS	PS-LX-010265-DOC	1	
.. 2	0603CS-5N6XGLU	INDUCTOR, FIXED, SMT, 5.6NH, 2%	0603CS-5N6XGLU	2	L508,L608
... 3	0603CS-ROHS-DOC	ROHS COMPLIANT	0603CS-ROHS-DOC	1	
.. 2	LX24894-0001	INDUCTOR, NOISE SUPPR, 600 OHM, 0603, ROHS	LX24894-0001	2	L510,L511
... 3	PS-LX24894-XXXX-DOC	Inductor, Ferrite Noise Suppr, 0603, RoHS	PS-LX24894-XXXX-DOC	1	
.. 2	LX-012375-682	INDUCTOR,SMT,PWR,6.1X6.1MM,6.8UH	LX-012375-682	1	L514
... 3	PS-LX-012375-DOC	INDUCTOR,SMT,POWER,6.1 X 6.1,ROHS	PS-LX-012375-DOC	1	
.. 2	LX-007986	10nH, 2%, 0603, Chip Inductor, Coilcraft	LX-007986	2	L515,L516
.. 2	LX-012375-472	INDUCTOR,SMT,PWR,6.1 X 6.1,4.7UH,ROHS	LX-012375-472	6	L520,L521,L805-L808
... 3	PS-LX-012375-DOC	INDUCTOR,SMT,POWER,6.1 X 6.1,ROHS	PS-LX-012375-DOC	1	
.. 2	LX-007655	6.8nH, 2%, 0603, Chip Inductor, Coilcraf	LX-007655	1	L607
.. 2	CN-011762-001	CONNECTOR,PWR,HEADER,RTANG,3POS,PRESS FI	CN-011762-001	1	P801
... 3	PS-CN-011762-DOC	Connector,PWR,Header,RTANG,Press Fit,RoHS	PS-CN-011762-DOC	1	
.. 2	IC-016138-001	IC,DUAL TRANSISTOR,NPN/PNP,SMT	IC-016138-001	4	Q11-Q14
.. 2	TR-012354-001	TRANSISTOR,NPN,SM SIG,40V,SOT-23,ROHS	TR-012354-001	7	Q501,Q502,Q504,Q507-Q510
... 3	VS-TR-012354-DOC	Transistor,NPN,Sm Sig,40V,SOT-23,RoHS	VS-TR-012354-DOC	1	
.. 2	TR-016188-001	TRANSISTOR,RF, NE68519	TR-016188-001	2	Q503,Q505
.. 2	TR-012353-001	TRANSISTOR,PNP,SM SIG,40V,SOT-23,ROHS	TR-012353-001	2	Q506,Q801
... 3	VS-TR-012353-DOC	Transistor,PNP,Sm Sig,40V,SOT-23,RoHS	VS-TR-012353-DOC	1	
.. 2	TR-012315-001	TRANSISTOR,MOSFET,N-CHAN,30V,SO-8,ROHS	TR-012315-001	2	Q802,Q803
... 3	VS-TR-012315-DOC	Transistor,MOSFET,N-Chan,30V,SO-8,RoHS	VS-TR-012315-DOC	1	
.. 2	RS-013678-003	RESISTOR NTWK 0.063W,25V,ROHS	RS-013678-003	7	RN3-RN9
... 3	VS-RS-013678-DOC	RESISTOR NTWK,0.063W,25V,CTS-741 SERIES,0402	VS-RS-013678-DOC	1	
.. 2	RS-012496-002	RESISTOR,NTWK,0.063W,10 OHM,0402X8,ROHS	RS-012496-002	9	RN812-RN815,RN817-RN821
... 3	PS-RS-012496-DOC	Resistor,NTWK,0.063W,25V,RoHS	PS-RS-012496-DOC	1	
.. 2	RS-012496-001	RESISTOR,NTWK,0.063W,10 OHM,0402X4,ROHS	RS-012496-001	2	RN816,RN822
... 3	PS-RS-012496-DOC	Resistor,NTWK,0.063W,25V,RoHS	PS-RS-012496-DOC	1	
.. 2	RS-103446-0049R9	RESISTOR,METAL FILM,0603,1%,49.9 OHM,ROHS	RS-103446-0049R9	9	R1-R4,R33,R516,R531,R546,R606
.. 2	RS-103446-0024R9	RESISTOR METAL FILM, 0603 1%, 24.9OHM	RS-103446-0024R9	2	R5,R6
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-001001	RESISTOR,METFILM,1%,0603,63MW,ROHS,1KOHM	RS-103446-001001	13	R7,R500,R501,R506,R587,R588,R616,R620,R634,R663,R670,R673,R705
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	

.. 2	RS-103446-003010	RESISTOR METAL FILM, 0603 1%, 3010HM	RS-103446-003010	2	R8,R651
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-001002	RESISTOR,1%,0603,63MW,ROHS,10K OHM	RS-103446-001002	25	R9,R15,R16,R44,R113,R526,R527,R577,R578,R580,R592,R597,R611-R613,R621,R632,R641,R645,R646,R652,R703,R710,R714,R3238
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-002940	RES FILM 294 1% 1/10W 0603	RS-103446-002940	4	R17,R19,R45,R47
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-0017R8	RESISTOR METAL FILM, 0603 1%, 17.8OHM	RS-103446-0017R8	2	R18,R46
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-002210	RESISTOR METAL FILM, 0603 1%, 221OHM	RS-103446-002210	4	R20,R22,R55,R682
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-0023R7	RESISTOR METAL FILM, 0603 1%, 23.7OHM	RS-103446-0023R7	1	R21
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-010917-001100	RESISTOR,MET FILM,0603,110 OHM,0.1%,ROHS	RS-010917-001100	2	R28,R29
... 3	PS-RS-010917-DOC	Resistor,Met Film,0603,0.1%,RoHS	PS-RS-010917-DOC	1	
.. 2	RS-103446-005110	RESISTOR METAL FILM, 0603 1%, 511OHM	RS-103446-005110	8	R30,R32,R34,R36,R519,R521,R545,R598
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS103446V10R0	RESISTOR,METAL FILM,0603,1%,10 OHM,ROHS	RS103446V10R0	4	R31,R35,R505,R672
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-004320	RESISTOR METAL FILM, 0603 1%, 432OHM	RS-103446-004320	9	R37,R39,R49,R50,R102,R104,R108,R109,R594
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-0011R5	RESISTOR METAL FILM, 0603 1%, 11.5OHM	RS-103446-0011R5	4	R38,R51,R103,R107
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-001000	RESISTOR,METAL FILM,0603,1%,100 OHM,ROHS	RS-103446-001000	11	R43,R510,R512,R520,R534,R539,R544,R658,R668,R687,R704
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-000000	RESISTOR METAL FILM,0603 1%,0OHM	RS-103446-000000	27	R48,R65-R68,R84,R88,R89,R100,R111,R112,R517,R537,R547,R571,R579,R582,R614,R615,R617-R619,R622,R624,R702,R711,R712
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-012098-002210	RESISTOR METAL FILM, 0402 1%, 221OHM	RS-012098-002210	5	R56,R566-R569
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-103446-0033R2	RESISTOR,METAL FILM,0603,1%,33.2 OHM,ROHS	RS-103446-0033R2	11	R60,R511,R513,R540,R554,R557,R610,R661,R676-R678
.. 2	RS-012098-0010R0	RES FILM 10 OHM 1% 1/16W 0402	RS-012098-0010R0	7	R474,R475,R563,R564,R883,R971,R972
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-103446-005621	RESISTOR,METAL FILM,0603,1%,5.62 KOHM,ROHS	RS-103446-005621	3	R502,R671,R706
.. 2	RS103446V4751	RESISTOR,METAL FILM,0603,1%,4.75K	RS103446V4751	3	R503,R508,R535
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-001501	RESISTOR,METAL FILM,0603,1%,1.5 KOHM,ROHS	RS-103446-001501	1	R504
.. 2	RS-103446-005R10	RESISTOR METAL FILM, 0603 1%, 5.1OHM	RS-103446-005R10	2	R507,R674
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-0030R1	RESISTOR METAL FILM, 0603 1%, 30.1OHM	RS-103446-0030R1	6	R509,R524,R551,R603,R636,R643
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-004021	RES FILM 4.02K 1% 1/10W 0603	RS-103446-004021	2	R515,R542
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-012098-0018R2	RESISTOR METAL FILM, 0402 1%, 18.2OHM	RS-012098-0018R2	1	R523
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	R85-6021-180	RES FILM 665 1% 1/10W 0603	R85-6021-180	2	R525,R647
.. 2	RS-103446-0071R5	RESISTOR METAL FILM, 0603 1%, 71.5OHM	RS-103446-0071R5	2	R528,R629
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-0095R3	RESISTOR METAL FILM, 0603 1%, 95.3OHM	RS-103446-0095R3	4	R529,R530,R631,R635
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-001240	RESISTOR METAL FILM, 0603 1%, 124OHM	RS-103446-001240	2	R532,R533
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-001500	RESISTOR METAL FILM, 0603 1%, 150OHM	RS-103446-001500	3	R536,R559,R560
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-0015R0	RESISTOR METAL FILM, 0603 1%, 15OHM	RS-103446-0015R0	2	R538,R553
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-007152	RESISTOR METAL FILM, 0603 1%, 71.5KOHM	RS-103446-007152	2	R541,R650
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS103446V2002	RESISTOR,METAL FILM,0603,1%,20K	RS103446V2002	2	R549,R593
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-0016R5	RESISTOR METAL FILM, 0603 1%, 16.5OHM	RS-103446-0016R5	5	R550,R556,R604,R605,R639
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	

.. 2	RS-103446-0080R6	RESISTOR METAL FILM, 0603 1%, 80.6OHM	RS-103446-0080R6	3	R552,R599,R600
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-0066R5	RESISTOR METAL FILM, 0603 1%, 66.5OHM	RS-103446-0066R5	9	R555,R607,R608,R640,R654,R655,R666,R669,R3241
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-003570	RESISTOR METAL FILM, 0603 1%, 357OHM	RS-103446-003570	1	R558
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-0037R4	RESISTOR METAL FILM, 0603 1%, 37.4OHM	RS-103446-0037R4	1	R561
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-012098-004751	RESISTOR METAL FILM, 0402 1%, 4.75KOHM	RS-012098-004751	10	R562,R834,R888,R896,R899,R902,R912-R915
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-0049R9	RESISTOR METAL FILM, 0402 1%, 49.9OHM	RS-012098-0049R9	5	R565,R959-R962
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-103446-0027R4	RESISTOR METAL FILM, 0603 1%, 27.4OHM	RS-103446-0027R4	1	R570
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS103446V4750	RESISTOR,METAL FILM,0603,1%,475 OHMS	RS103446V4750	1	R572
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-004990	RESISTOR METAL FILM, 0603 1%, 499OHM	RS-103446-004990	2	R573,R574
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS103446V2001	RESISTOR,METAL FILM,0603,1%,2K	RS103446V2001	2	R575,R576
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-001003	RESISTOR,MET FILM,1%,0603,63MW,ROHS,100K	RS-103446-001003	1	R581
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-010939-003320	RESISTOR THK FILM, 0805 1%, 332OHM	RS-010939-003320	12	R586,R628,R642,R648,R649,R653,R699-R701,R707,R708,R715
... 3	PS-RS-010939-DOC	Resistor,Thk Film,1/8W,1%,0805,RoHS	PS-RS-010939-DOC	1	
.. 2	RS-103446-001004	RES FILM 1M 1% .1W 0603	RS-103446-001004	1	R590
.. 2	RS-103446-006811	RESISTOR METAL FILM, 0603 1%, 6.81KOHM	RS-103446-006811	1	R591
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-002434	RESISTOR METAL FILM, 0603 1%, 2.43MOHM	RS-103446-002434	1	R595
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS103446V2003	RESISTOR,METAL FILM,0603,1%,200K	RS103446V2003	1	R596
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-0046R4	RESISTOR METAL FILM, 0603 1%, 46.4OHM	RS-103446-0046R4	3	R601,R602,R609
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-012098-0033R2	RESISTOR METAL FILM, 0402 1%, 33.2OHM	RS-012098-0033R2	24	R625-R627,R688-R692,R820-R825,R940,R966-R968,R978-R981,R994,R995
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-103446-004221	RESISTOR METAL FILM, 0603 1%, 4.22KOHM	RS-103446-004221	1	R633
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-001780	RES FILM 178 1% 1/10W 0603	RS-103446-001780	2	R637,R638
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-103446-003321	RESISTOR,METAL FILM,0603,1%,3.32 KOHM,ROHS	RS-103446-003321	1	R644
.. 2	RS-103446-002611	RESISTOR METAL FILM, 0603 1%, 2.61KOHM	RS-103446-002611	1	R662
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-012098-001000	RESISTOR METAL FILM, 0402 1%, 100OHM	RS-012098-001000	5	R665,R3246-R3249
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-001002	RESISTOR METAL FILM, 0402 1%, 10KOHM	RS-012098-001002	44	R667,R800-R805,R826-R828,R836,R837,R840-R845,R847,R873,R878,R884,R905,R906,R936,R1100-R1108,R1110,R1112,R1114,R1116,R1118,R1120,R1136,R1154,R1157,R3271
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-103446-001R80	RESISTOR METAL FILM,0603 1%,1.8 OHM	RS-103446-001R80	1	R683
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-012098-000000	RESISTOR METAL FILM, 0402 1%, 0OHM	RS-012098-000000	21	R685,R813,R816,R848,R851-R857,R882,R886,R935,R937-R939,R943,R946,R955,R965
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-010939-000000	RESISTOR THK FILM, 0805 1%, 0OHM	RS-010939-000000	1	R686
... 3	PS-RS-010939-DOC	Resistor,Thk Film,1/8W,1%,0805,RoHS	PS-RS-010939-DOC	1	
.. 2	RS103446V3322	RESISTOR,METAL FILM,0603,1%,33.2K	RS103446V3322	2	R709,R713
... 3	PS-RS103446-DOC	RESISTOR,METAL FILM,0603 CHIP,1%,ROHS	PS-RS103446-DOC	1	
.. 2	RS-012098-002000	RESISTOR METAL FILM, 0402 1%, 200OHM	RS-012098-002000	3	R810,R811,R887
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-001001	RES FILM 1K 1% .063W 0402	RS-012098-001001	39	R814,R815,R818,R819,R832,R833,R835,R849,R866,R868,R870,R875,R877,R880,R920,R928-R934,R947-R949,R954,R956,R963,R964,R973,R987,R1128,R1130,R1132,R1134,R1159-R1162
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	

.. 2	RS-012098-005621	RESISTOR METAL FILM, 0402 1%, 5.62KOHM	RS-012098-005621	4	R829,R830,R865,R872
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012398-00R015	RESISTOR,CUR SEN,0805,.125W,1%,.015 OHM	RS-012398-00R015	4	R831,R871,R957,R970
... 3	PS-RS-012398-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012398-DOC	1	
.. 2	RS-012098-003401	RESISTOR METAL FILM, 0402 1%, 3.4KOHM	RS-012098-003401	1	R838
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-001132	RESISTOR METAL FILM, 0402 1%, 11.3KOHM	RS-012098-001132	1	R839
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-004991	RES FILM 4.99K 1% 1/16W 0402	RS-012098-004991	1	R850
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-003010	RESISTOR METAL FILM, 0402 1%, 301OHM	RS-012098-003010	6	R858-R863
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-003012	RESISTOR METAL FILM, 0402 1%, 30.1KOHM	RS-012098-003012	1	R864
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-004021	RESISTOR METAL FILM, 0402 1%, 4.02KOHM	RS-012098-004021	1	R867
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-002611	RESISTOR METAL FILM, 0402 1%, 2.61KOHM	RS-012098-002611	1	R869
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-004531	RESISTOR METAL FILM, 0402 1%, 4.53KOHM	RS-012098-004531	1	R874
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-003161	RESISTOR METAL FILM, 0402 1%, 3.16KOHM	RS-012098-003161	1	R876
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-002001	RESISTOR METAL FILM, 0402 1%, 2KOHM	RS-012098-002001	1	R879
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-002211	RESISTOR METAL FILM, 0402 1%, 2.21KOHM	RS-012098-002211	17	R881,R922- R924,R926,R927,R941,R942,R1127,R1129,R1131,R1133,R 1135,R1138,R1140,R1143,R1145
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-006041	RESISTOR METAL FILM, 0402 1%, 6.04KOHM	RS-012098-006041	1	R903
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-004750	RESISTOR METAL FILM, 0402 1%, 475OHM	RS-012098-004750	1	R904
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-0075R0	RESISTOR METAL FILM, 0402 1%, 75OHM	RS-012098-0075R0	1	R907
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	R85-6040-066	RES FILM 47.5 1% 1/16W 0402	R85-6040-066	8	R908-R911,R916,R974-R976
.. 2	RS-012098-001022	RESISTOR METAL FILM, 0402 1%, 10.2KOHM	RS-012098-001022	1	R950
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-004420	RESISTOR METAL FILM, 0402 1%, 442OHM	RS-012098-004420	1	R951
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-002942	RESISTOR METAL FILM, 0402 1%, 29.4KOHM	RS-012098-002942	1	R952
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-006811	RESISTOR METAL FILM, 0402 1%, 6.81KOHM	RS-012098-006811	1	R953
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-003090	RESISTOR METAL FILM, 0402 1%, 309OHM	RS-012098-003090	4	R982-R985
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-002002	RESISTOR METAL FILM, 0402 1%, 20KOHM	RS-012098-002002	4	R1147,R1149,R1151,R1153
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	RS-012098-004221	RESISTOR METAL FILM, 0402 1%, 4.22KOHM	RS-012098-004221	1	R1158
... 3	PS-RS-012098-DOC	RESISTOR,METAL FILM,1%,0402,ROHS	PS-RS-012098-DOC	1	
.. 2	R85-6021-262	RES FILM 4.32K 1% 1/10W	R85-6021-262	1	R3218
.. 2	AD-016067-005	ATTENUATOR,TEMP VARIABLE,4DB -0.005 TC	AD-016067-005	2	R3251,R3252
... 3	VS-AD-016067-DOC	Attenuator,temperature variable,DC to 46 GHz,1 t	VS-AD-016067-DOC	1	
.. 2	OC-016182-018	RESONATOR,COAX,CER,SMT,1.8GHZ,E-CASE	OC-016182-018	1	TL2
.. 2	OC-016182-016	RESONATOR,COAX,CER,SMT,1.6GHZ,E-CASE	OC-016182-016	1	TL3
.. 2	IC-011392-001	MICROCIRCUIT,16BIT DAC,TQFP-100,ROHS	IC-011392-001	1	U1
... 3	VS-IC-011392-DOC	Microcircuit,12/14/16-bit DAC,RoHS	VS-IC-011392-DOC	1	
.. 2	IC-013831-001	IC,SINGLE BUFFER GATE,SOT-23 5-PIN,ROHS	IC-013831-001	1	U2
... 3	VS-IC-013831-001-DOC	IC,SINGLE BUFFER GATE, SOT-23 5-pin	VS-IC-013831-001-DOC	1	
.. 2	IC-016141-002	MICROCIRCUIT,AMP,HBTMMIC,850,20DB,SOT-89	IC-016141-002	1	U4
.. 2	MX-010777-001	MIXER,ACTIVE,HI LINEARITY,QFN-16,ROHS	MX-010777-001	1	U5
... 3	VS-MX-010777-DOC	Mixer,Active,Hi Linearity,QFN-16,RoHS	VS-MX-010777-DOC	1	
.. 2	IC-010256-001	MICROCIRCUIT,GAAS MMIC AMP,TO-243,ROHS	IC-010256-001	1	U6
... 3	VS-IC-010256-DOC	Microcircuit,GaAs MMIC Amp,TO-243,RoHS	VS-IC-010256-DOC	1	
.. 2	IC-016143-002	IC,RF, SXA-389	IC-016143-002	1	U7
.. 2	IC-015201-003	MICROCIRCUIT,LDO,100MA,REG,BYP,ADJ,SOT-2	IC-015201-003	4	U501,U502,U509,U511

... 3	VS-IC-015201-DOC	MICROCIRCUIT,LDO,100mA,REG,FXD-1.2/1.5/1.8/2.0/2	VS-IC-015201-DOC	1	
.. 2	IC-015212-001	MICROCIRCUIT,DC/DC-CNVTR,SHDN,CMOS,SO-8	IC-015212-001	1	U503
... 3	VS-IC-015212-DOC	MICROCIRCUIT,DC/DC-CNVTR,SHDN,CMOS,SO-8	VS-IC-015212-DOC	1	
.. 2	IC-018507-001	MICROCIRCUIT,FRAC-N FREQ SYNTH,TSSOP-16	IC-018507-001	1	U504
.. 2	IC-014256-001	MICROCIRCUIT,I/OP-AMP,DUAL,BIPOL,SOIC-8	IC-014256-001	2	U505,U506
... 3	VS-IC-014256-001-DOC	Microcircuit,I/OP-AMP,DUAL,BIPOL,SOIC-8	VS-IC-014256-001-DOC	1	
.. 2	IC-016142-001	IC,RF,SGA-4463	IC-016142-001	3	U508,U513,U519
.. 2	IC-016130-001	IC,MMIC,5GHZ AMPLIFIER	IC-016130-001	1	U510
.. 2	IC-011271-001	MICROCIRCUIT,SIGE MMIC AMP,SOT-363,ROHS	IC-011271-001	1	U514
... 3	VS-IC-011271-DOC	Microcircuit,SIGE MMIC Amp,SOT-363,ROHS	VS-IC-011271-DOC	1	
.. 2	IC-011375-001	MICROCIRCUIT,PLL SYNTHESIZER,LCC-20,ROHS	IC-011375-001	1	U515
... 3	VS-IC-011375-DOC	Microcircuit,PLL Synthesizer,ROHS	VS-IC-011375-DOC	1	
.. 2	IC-010527-001	MICROCIRCUIT,HS,DIFA,MSOP-8,ROHS	IC-010527-001	1	U516
... 3	VS-IC-010527-DOC	Microcircuit,HS,DIFA,MSOP-8,ROHS	VS-IC-010527-DOC	1	
.. 2	IC-016137-001	OSCILLATOR,VXCO,10 MHz,2PPM,0-50C	IC-016137-001	1	U517
... 3	VS-IC-016137-DOC	IC,Digital,VTC1-B12A	VS-IC-016137-DOC	1	
.. 2	I06-0039-902	IC,ANALOG SWITCH,SPDT,4 OHM MAX	I06-0039-902	1	U518
.. 2	I57-0228-003	IC,FPGA,CYCLONE(TM) IV,28.8K LOGIC ELEMENTS	I57-0228-003	1	U520
.. 2	IC-012331-001	MICROCIRCUIT,SGL COMPTR W/REF,SO-8,ROHS	IC-012331-001	1	U526
... 3	VS-IC-012331-DOC	Microcircuit,Comparator W/Reference,ROHS	VS-IC-012331-DOC	1	
.. 2	IC-010811-001	MICROCIRCUIT,LOW CUR OP AMP,SOT23-5,ROHS	IC-010811-001	1	U527
... 3	VS-IC-010811-DOC	Microcircuit,Low Cur Op Amp,SOT23-5,ROHS	VS-IC-010811-DOC	1	
.. 2	IC-011272-001	MICROCIRCUIT,SIGE MMIC AMP,SOT-363,ROHS	IC-011272-001	3	U529,U530,U820
.. 2	IC-014301-001	MICROCIRCUIT,17V,1.5A,SYNCONV,VTFQFP-N16	IC-014301-001	1	U533
... 3	VS-IC-014301-001-DOC	Microcircuit,17V,1.5A,SYNCONV,VTFQFP-N16	VS-IC-014301-001-DOC	1	
.. 2	IC-014297-001	MICROCIRCUIT,3-6V3A,PWM-SWRGLTR,TSSOP-20	IC-014297-001	1	U541
... 3	VS-IC-014297-001-DOC	Microcircuit,3-6V3A,PWM-SWRGLTR,TSSOP-20	VS-IC-014297-001-DOC	1	
.. 2	IC-012360-033	MICROCIRCUIT,VR,LDO,3.3V,15A,SOT23,ROHS	IC-012360-033	4	U543,U544,U555,U561
... 3	VS-IC-012360-DOC	Microcircuit,VR,LDO,150mA,SOT-23,ROHS	VS-IC-012360-DOC	1	
.. 2	IC-012360-050	MICROCIRCUIT,VR,LDO,5.0V,15A,SOT23,ROHS	IC-012360-050	6	U547-U549,U551,U552,U558
... 3	VS-IC-012360-DOC	Microcircuit,VR,LDO,150mA,SOT-23,ROHS	VS-IC-012360-DOC	1	
.. 2	IC-010776-050	MICROCIRCUIT,VR,LDO,5V,500MA,SO-8,ROHS	IC-010776-050	1	U550
... 3	VS-IC-010776-DOC	Microcircuit,VR,LDO,500mA,SO-8,ROHS	VS-IC-010776-DOC	1	
.. 2	IC-012360-018	MICROCIRCUIT,VR,LDO,1.8V,15A,SOT23,ROHS	IC-012360-018	1	U556
... 3	VS-IC-012360-DOC	Microcircuit,VR,LDO,150mA,SOT-23,ROHS	VS-IC-012360-DOC	1	
.. 2	IC-012389-001	MICROCIRCUIT,STPDN VR,1.2A,MSOP-10,ROHS	IC-012389-001	4	U557,U811-U813
... 3	VS-IC-012389-DOC	Microcircuit,Step-down VR,1.2A,ROHS	VS-IC-012389-DOC	1	
.. 2	IC-015253-001	MICROCIRCUIT,ANLG SW,SPST,25 OHM,SOT23-6	IC-015253-001	1	U702
... 3	VS-IC-015253-DOC	MICROCIRCUIT,ANLG SW,SPST,25 OHM,SOT23-6	VS-IC-015253-DOC	1	
.. 2	IC-016132-001	IC,ANALOG SWITCH,SPST,SOT23-6	IC-016132-001	2	U703,U704
.. 2	I87-0068-001	IC,FIXED-POINT DIGITAL SIGNAL PROCESSOR,EMAC	I87-0068-001	1	U801
.. 2	IC-016900-001	MICROCIRCUIT,SDRAM,DDR2,4X8MX16,FBGA-84	IC-016900-001	1	U802
... 3	VS-IC-016900-DOC	MICROCIRCUIT,SDRAM,DDR2,4X8MX16,FBGA-84	VS-IC-016900-DOC	1	
.. 2	SK-015108-001	Flash,S29JL064H90TFI000,PGMD,MV,U803	SK-015108-001	1	U803
... 3	IC-018278-064090	MICROCIRCUIT,NOR FL,64MBIT,90NS,TSOP48	IC-018278-064090	1.0	U803
... 3	SK-015108-001R1A	SW,FLASH BOOT & LOADER,MV LIN U803	SK-015108-001R1A	1	
... 4	PS-SK-015108-001	Specification,Pre-programmed IC	PS-SK-015108-001	1	
.. 2	SK-015108-017	IC,PGMD,CPLD CONFIG MK IIA MV TX U804	SK-015108-017	1	U804
... 3	PS-SK-015108-017	SW,CPLD CONFIG MK IIA MASTR V TX U804	PS-SK-015108-017	1	
... 3	IC-024839-240	MICROCIRCUIT,CPLD,240 LGC ELEM,TQFP-100,ROHS	IC-024839-240	1	
... 4	VS-IC24839-XXXX-DOC	Microcircuit,CPLD,Altera Max II Devices	VS-IC24839-XXXX-DOC	1	
... 3	SK-015108-017001	SW,CPLD CONFIG MK IIA MASTR V TX U804	SK-015108-017001	1	
... 4	PS-SK-015108-017	SW,CPLD CONFIG MK IIA MASTR V TX U804	PS-SK-015108-017	1	
.. 2	SR-013376-001	SENSOR,TEMP.,SOT23-6,SPI,ROHS	SR-013376-001	1	U805
... 3	VS-SR-013376-DOC	SENSOR,TEMP.,SOT23-6,SPI,ROHS	VS-SR-013376-DOC	1	
.. 2	IC-012267-001	MICROCIRCUIT,ETHERNET SW,LQFP-128,ROHS	IC-012267-001	1	U817
... 3	VS-IC-012267-DOC	Microcircuit,Ethernet SW,LQFP-128,ROHS	VS-IC-012267-DOC	1	
.. 2	IC-010303-014	MICROCIRCUIT,SGL HEX INV,SOT-23,ROHS	IC-010303-014	1	U821
... 3	VS-IC-010303-DOC	Microcircuit,Sgl Hex Inv,SOT-23,ROHS	VS-IC-010303-DOC	1	
.. 2	CY-012459-001	OSCILLATOR,SMT,7.5X5.0MM,3.3V,25MHZ,ROHS	CY-012459-001	1	U824
... 3	VS-CY-012459-DOC	Oscillator,HCMOS/TTL,SMT,7.5x5.0mm,ROHS	VS-CY-012459-DOC	1	
.. 2	IC-012332-001	MICROCIRCUIT,HOT-SWAP CTRLR,SSOP-16,ROHS	IC-012332-001	1	U832
... 3	VS-IC-012332-DOC	Microcircuit,Hot-Swap Ctrlr,SSOP-16,ROHS	VS-IC-012332-DOC	1	
.. 2	IC-014399-001	MICROCIRCUIT,EEPROM,1MB,1.8&2.5V,SOIC-8	IC-014399-001	1	U833
.. 2	IC-012333-001	MICROCIRCUIT,OCTAL VOLT MON,SSOP-16,ROHS	IC-012333-001	1	U834

... 3	VS-IC-012333-DOC	MICROCIRCUIT,OCTAL VOLTAGE MONITOR,ROHS	VS-IC-012333-DOC	1
.. 2	IC-012391-001	MICROCIRCUIT,STPDN VR,3A,QFN-24,ROHS	IC-012391-001	1 U835
... 3	VS-IC-012391-DOC	Microcircuit,Step-down VR,3A,RoHS	VS-IC-012391-DOC	1
.. 2	IC-012103-001	MICROCIRCUIT,4 OUT CLK BFR,TSSOP-8,ROHS	IC-012103-001	2 U836,U839
... 3	VS-IC-012103-DOC	Microcircuit,4 Output Clock Buffer,RoHS	VS-IC-012103-DOC	1
.. 2	IC-012392-001	MICROCIRCUIT,VR,LDO,1.5V,.4A,SOT-23,ROHS	IC-012392-001	1 U837
... 3	VS-IC-012392-DOC	Microcircuit,VR,LDO,1.5V,.4A,SOT-23,RoHS	VS-IC-012392-DOC	1
.. 2	IC-011834-001	MICROCIRCUIT,ETHERNET XCVR,SGL,TFBGA-117	IC-011834-001	1 U838
... 3	VS-IC-011834-DOC	MICROCIRCUIT,ETHERNET XCVR,SGL,TFBGA-117	VS-IC-011834-DOC	1
.. 2	RYT102217/C	MICROCIRCUIT,PRESALER,/2,3GHZ,SSOP-8	RYT102217/C	1 U840
... 3	1301-RYT102217-DOC	PRESALER, DIVIDE BY 2	1301-RYT102217-DOC	1
.. 2	IC-014388-001	MICROCIRCUIT,ADC,SGL,10-BIT,SOT-23-6	IC-014388-001	2 U841,U842
... 3	VS-IC-014388-DOC	Microcircuit,ADC,SGL,10-bit,SOT-23-6	VS-IC-014388-DOC	1
.. 2	IC-015201-001	MICROCIRCUIT,LDO,100mA,REG,FXD,3.3V,SOT-	IC-015201-001	1 U5107
... 3	VS-IC-015201-DOC	MICROCIRCUIT,LDO,100mA,REG,FXD-1.2/1.5/1.8/2.0/2	VS-IC-015201-DOC	1
.. 2	LX-011160-001	TRANSFORMER,RF,50 OHM,20 - 1200MHZ,ROHS	LX-011160-001	1 X1
... 3	PS-LX-011160-DOC	Transformer,RF,50 ohm,20 - 1200Mhz,RoHS	PS-LX-011160-DOC	1
.. 2	TF-018782-001	TRANSFORMER RF 1:1 4.5-3000MHZ	TF-018782-001	2 X2,X4
.. 2	T10-0034-001	RF TRANSFORMER, 500-2500 MHZ, 50 OHM	T10-0034-001	1 X5
.. 2	LX-011159-001	TRANSFORMER,RF,50 OHM,0.4 - 500MHZ,ROHS	LX-011159-001	1 X6
... 3	PS-LX-011159-DOC	Transformer,RF,50 ohm,0.4 - 500Mhz,RoHS	PS-LX-011159-DOC	1
.. 1	NP-015309-008	Label,Product,Transmitter,MASTR V	NP-015309-008	1 7
.. 2	PS-NP-015309-DOC	Label,Product & MAC Address,MASTR V	PS-NP-015309-DOC	1
.. 2	E30-0021-005	LABEL THERMAL XFER .50 X 1.0 WHITE POLY GLOSS	E30-0021-005	1
.. 1	NP-016546-001	Label,Tamper-evident,MASTR V	NP-016546-001	1 8
.. 2	PS-NP-016546-DOC	Label,Tamper-evident,MASTR V	PS-NP-016546-DOC	1
.. 1	2079054-1	SCREW,MACH,PAN,TORX,M3x6,STL,CLEAR-ZINC	2079054-1	1 9
.. 2	VS-2079054-DOC	SCREW,MACH,PAN,TORX,METRIC,STL,CLR-ZINC	VS-2079054-DOC	1
.. 1	2079054-2	SCREW,MACH,PAN,TORX,M3x8,STL,CLEAR-ZINC	2079054-2	2 10
.. 2	VS-2079054-DOC	SCREW,MACH,PAN,TORX,METRIC,STL,CLR-ZINC	VS-2079054-DOC	1
.. 1	2079050-3	SCREW,TH-F,PAN,TORX,M3x0.5x12,STL,CLR-Zn	2079050-3	20 11
.. 2	VS-2079050-DOC	SCREW,METRIC,THRD-FM,PAN,TORX,STL,CLR-Zn	VS-2079050-DOC	1

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Title: **FCC SYSTEM TESTING: MASTR V BASE STATION**



FCC SYSTEM TESTING:
MASTR V BASE STATION

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FCC SYSTEM TESTING: MASTR V BASE STATIONACRONYMS

BB	Baseband
IP	Internet Protocol
MASTR V	Mobile And Station Transistorized Radio Generation V
LN/PA	Linearizer/Power Amplifier
RX	Receiver
TC	Traffic Controller
TELNET	Telecommunication Network
TX	Transmitter



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FCC SYSTEM TESTING: MASTR V BASE STATIONList of Tables

Table 1.1 Channel Map.....	6
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1. SCOPE

The purpose of this document is to describe the test commands for the MASTRV FCC system testing using the MASTRV TELNET system.

2. SYSTEM OVERVIEW

The MASTRV TELNET system consists of a TELNET client located on an external computer connected to a MASTRV TELNET server located on a MASTR V Baseband module through an Ethernet connection.

The MASTRV TELNET server IP address is 10.1.4.5 for the Baseband module located within slot 5 and IP address 10.1.4.12 for the Baseband module located within slot 12. The IP mask for both Baseband modules is 255.255.255.0.

Open a TELNET client window on an external computer; either IP address 10.1.4.5 for the Baseband located within slot 5 or IP address 10.1.4.12 for the Baseband located within slot 12.

Attached to this document is the MASTRV Test Commands barcodes sheet. The MASTRV FCC system testing test commands can be entered either by using a barcode scanner or typing the commands directly into each TELNET client window.

Each MASTRV Baseband consists of two channels: 1 and 2 for the Baseband within slot 5, and channels 3 and 4 for the Baseband within slot 12. Each channel is connected to one TX module, one LN/PA module, one RX module, and one TC module. The TX, RX, and TC modules are located within slots 1 through 14; and the LN/PA modules are located within ports 1 through 4. The Channel Map below shows which modules are connected to which slot or port:

Channel	BB slot	TX slot	LN/PA port	RX slot	TC slot
1	5	1	1	2	6
2	5	3	2	4	7
3	12	8	3	9	13
4	12	10	4	11	14

Table 1.1 Channel Map

3. SYSTEM TEST COMMANDS

The MASTRV FCC system test requires the test mode to be initiated for each channel.

After the test mode is initiated the sequence to setup a waveform is to set the channel, set the transmit waveform, and to key the transmitter. To change the waveform the sequence is to unkey the transmitter, set the channel, set the waveform, and to key the transmitter.

The power level commands can be issued anytime after the test mode is initiated.



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The test mode can be exited for a channel after completing the MASTRV FCC system test.

3.1. Initiate Test Mode

Format: **test_mode_enter [logical channel]**

The test_mode_enter command places the baseband module in test mode, which disables key/unkey messaging from the TC and Mux for a logical channel and signals the TC to not allow assignment of the channel. The baseband must be in test mode before test commands can be executed.

NOTE: The status_table_display command can be used to determine if a logical channel is in test mode.

Example: "test_mode_enter 2"

3.2. Set Channel

Format: **set_channel [logical channel]**

The set_channel command sets test mode to a particular logical channel.

Example: "set_channel 2"

3.3. Set Transmit Waveform

Format: **tx_waveform**

[waveform: "resume" | "carrier" | "400" | "700" | "1k" | "1.4k" | "2k" | "c4fm" | "cqpsk" | "hdqpsk" | "c4fm_a1"]

[tx test mode: "lowdev" | "hidev" | "modfid" | "1011" | "silence" | "interf" | "rand"]

The tx_waveform determines the waveform, and optionally the TX test mode, sent to the transmitter when keyed through the currently selected logical channel. The channel is selected through the set_channel command.

Parameter Waveform:

Parameter	Waveform
"resume"	Resumes default from personality
"carrier"	Carrier
"400"	400
"700"	700
"1k"	1k
"1.4k"	1.4k
"2k"	2k
"c4fm"	C4FM
"cqpsk"	CQPSK
"hdqpsk"	HDQPSK
"c4fm_a1"	C4FM alpha=1



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Parameter TX Test Mode:

Parameter	TX Test Mode
"lowdev"	Low deviation
"hidev"	High deviation
"modfid"	Mod fidelity
"1011"	1011 tone
"silence"	Silence
"interf"	Interference
"rand"	Random (default when no TX test mode entered or when waveform "resume", "carrier", or "1k" is entered.

NOTE: Only available in Test Mode.

Example: "tx_waveform 1k" Sets waveform to 1K Tone.

Example: "tx_waveform cqpsk 1011" Sets waveform to cqpsk and TX test mode to 1011 tone.

Example: "tx_waveform c4fm" Sets waveform to c4fm.

Example: "tx_waveform carrier rand" Sets waveform to carrier and TX test mode to random.

3.4. Key the Transmitter

Format: **tx_key**

The tx_key command keys the currently selected logical channel. The channel is selected through the set_channel command.

NOTE: Only available in Test Mode.

Example: "tx_key"

3.5. Unkey the Transmitter

Format: **tx_unkey**

The tx_unkey command un-keys the currently selected logical channel. The channel is selected through the set_channel command.

NOTE: Only available in Test Mode.

Example: "tx_unkey"

3.6. Get Power Level

Format (In Test Mode): **get_power_level**



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The get_power_level command gets the power level.

Test Mode Example: "get_power_level" Get power level for currently selected channel.

Example: "get_power_level 1" Get power level from logical channel 1.

3.7. Set Power Level

Format: **set_power_level [power]**

The set_power_level command sets the power level.

Example: "set_power_level 10" Set power level to 10 watts for currently selected channel.

3.8. Increment Power Level

Format: **incr_power_level**

The incr_power_level command increments the current power level by 1 watt, if the maximum power level is not reached, to the currently selected logical channel. The channel is selected through the set_channel command.

Example: "incr_power_level" Increase current power level by 1 watt for currently selected channel.

3.9. Decrement Power Level

Format: **decr_power_level**

The decr_power_level command decrements the current power level by 1 watt, if the minimum power level is not reached, to the currently selected logical channel. The channel is selected through the set_channel command.

Example: "decr_power_level" Decrease current power level by 1 watt for currently selected channel.

3.10. Exit Test Mode

Format: **test_mode_exit [logical channel]**

The test_mode_exit command places the baseband back in normal operation mode for a logical channel and signals the TC to allow assignment of the channel.

NOTE: Only available in Test Mode.

Example: "test_mode_exit"

3.11. Audit

Format: **audit**

The audit command performs the audit of all modules the baseband is responsible for; displaying their revisions.

Example: "audit"



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3.12. Status Table Display

Format: **status_table_display**

The `status_table_display` command displays the status table which includes all channels (up to 4) controlled by the Baseband module on which the command is run. Every 20 lines a header of the following is displayed:

Channel	Status	Cat	Slot	Module	State	Description.
---------	--------	-----	------	--------	-------	--------------

Channel designates on which channel the fault or status occurred. All channel 0 faults are displayed first, followed by channel 1, etc.

Status is the status number associated with each fault as defined in file `mv_faults.h`

Cat is the severity category of the fault as defined in `mv_faults.h`:

1 = Status

2 = Minor

3 = Major

Slot is the slot number of the board originating the fault. This number is extracted from the message header.

Module is the type of module originating the fault message. Module types are:

Bench On work bench, out of chassis

RX Receiver

TX Transmitter

PA Power Amplifier / Linearizer

BBPPC Baseband Power PC processor

BBDSP Baseband DSP processor

TC Traffic Controller (for module type completeness, none defined at this time.)

PSM Primary Switch Module – all PSM and SSM messages are of status level and some will always be present in the table(s).

SSM Secondary Switch Module

NS Network Sentry (for module type completeness, none defined at this time.)

Mux Mux (for module type completeness, none defined at this time.)



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State is the current state of the fault:

0 = cleared

1 = set

Description is the text string associated with a status number.

Example: "status_table_display"

Chan	Status	Cat	Slot	Module	State	Description
1	0x300A	1	0	PA	1	PA_FAULT_PA_DISABLED
1	0x404F	1	5	BBPPC	1	BBPPC_10_MHZ_DRIVEN_STATUS
1	0x7002	1	63	PSM	1	PSM_DETECTS_OTHER_SWITCH
1	0x7003	1	63	PSM	1	PSM_IN_MAIN_MODE
1	0x7004	1	63	PSM	1	PSM_IN_NORMAL_STANDBY
1	0x8001	1	63	SSM	1	SSM_NORMAL_ACTIVE
1	0x8002	1	63	SSM	1	SSM_DETECTS_OTHER_SWITCH
1	0x8003	1	63	SSM	1	SSM_IN_MAIN_MODE

Site type: Normal trunked.



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4. ATTACHMENTS

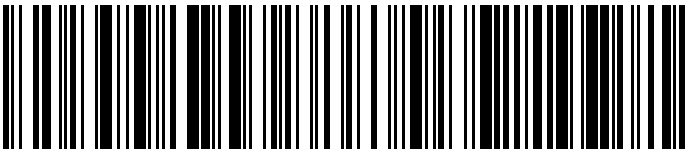
	Document Title	Document Number
	MASTRV TEST COMMANDS BARCODES SHEET	

5. REFERENCES

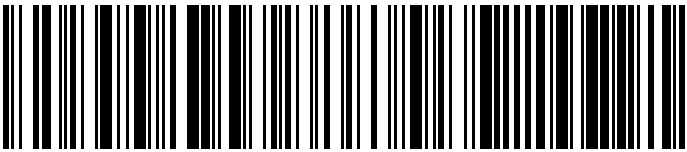
	Document Title	Document Number
	TELNET INTERFACE DESIGN: MASTRV BASE STATION	

6. REVISION HISTORY

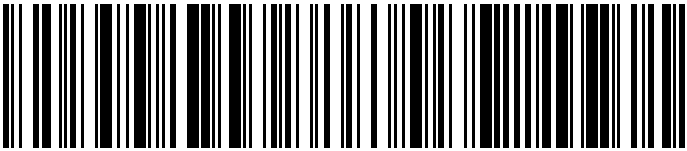
Revision	Date	Revised by	Reason for change
P1A	12/09/08	Richard Green	Initial release
P2A	07/22/09	Richard Green	Updated document to reflect Harris Corporation.
P3A	07/24/09	Richard Green	Removed distribution list and updated Table of Contents.
P4A	08/19/09	Richard Green	Added set power command.
R5A	02/25/11	Richard Green	Updated commands.
R6A	02/28/11	Richard Green	Corrected entry and added additional commands.



Test_mode_enter 1



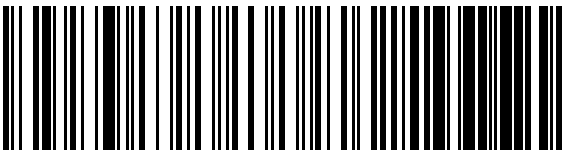
Test_mode_enter 2



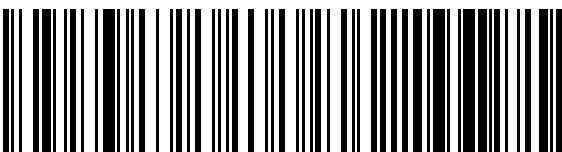
Test_mode_enter 3



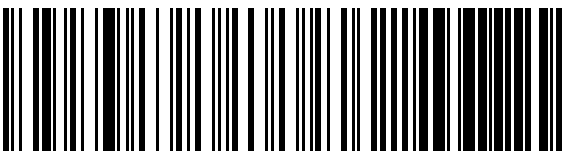
Test_mode_enter 4



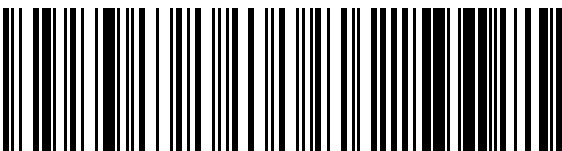
Set_channel 1



Set_channel 2



Set_channel 3



Set_channel 4



Get_power_level



Set_power_level 100



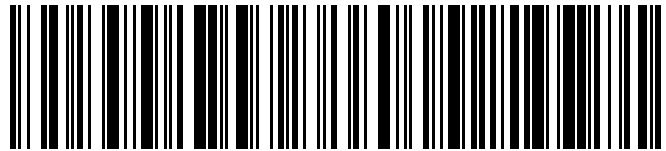
Set_power_level 10



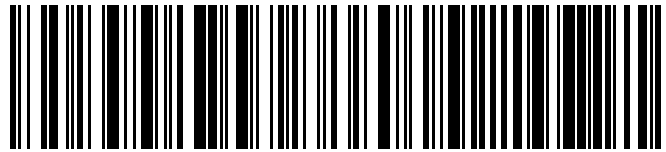
Incr_power_level



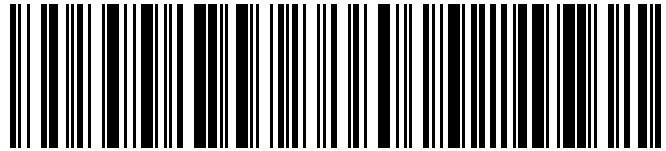
Decr_power_level



Test_mode_exit 1



Test_mode_exit 2



Test_mode_exit 3



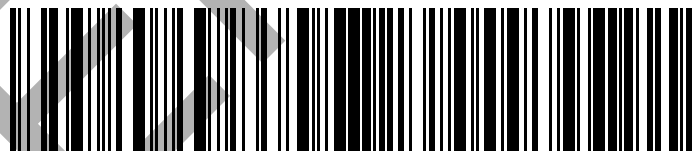
Test_mode_exit 4



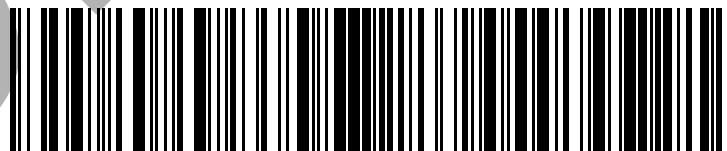
Tx_waveform carrier



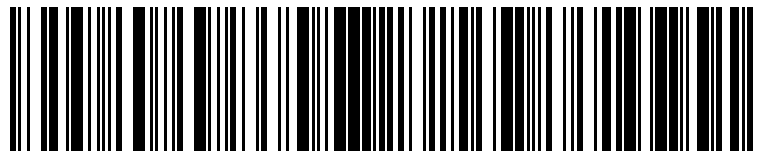
Tx_waveform c4fm



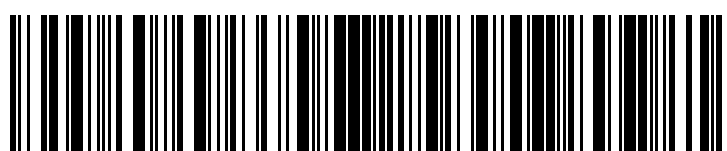
Tx_waveform cqpsk



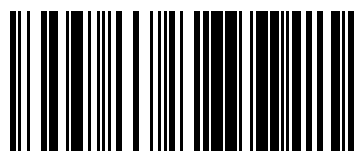
Tx_waveform hdqpsk



Tx_waveform c4fm_a1



Tx_waveform resume



Tx_key



Tx_unkey



Audit



Status_table_display