

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	80-00016-001		1
1.1	42-00033-001	Flange, Radar Frame Top	1
1.2	42-00031-001	Corner Rail, Radar	4
1.3	42-00033-002	Flange, Radar Frame Bottom	1
1.4	42-00032-002	Panel, Cold Wall Left	1
1.5	42-00032-003	Panel, Cold Wall Right	1
1.6	42-00032-001	Panel, Side Wall	1
1.7	42-00052-001	Bottom Panel, Radar Frame	1
2	80-00002-002	Antenna Deck	1
2.1	42-00014-002	Housing, Bearing Support	1
2.2	61814_2RZ		2
2.3	CR 80x100x10 CRW1 R		2
2.4	42-00015-002	SPACER, ANTENNA MAIN GEAR	1
2.5	42-00004-002	Plate, Radar Top	1
2.6	42-00001-003	Spindle, Bearing Shaft, M65 x 2 Thread	1
2.7	80-00014-001	Gear - Magnet Assembly	1
2.7.1	54-00003-001	Gear, Helical 6.988OD x 2.500 Bore x 6.788PD, Delrin 500	1
2.7.2	SBHCSCREW 0.138- 32x0.375-HX-N		1
2.8	42-00029-001	Plate, Spindle, Antenna Mount	1
2.9	53-59652-001	Nut, Lock, Type ZM65, M65 x 2.0	1
2.1	25-200001-002	Rotary Joint, WR-90	1
2.11	42-00030-001	Key, 1/8 x 1/8 x .70 L	1
2.12	59-00013-001	ORING, FLANGE SEAL	1
2.13	40-00007-001	Shim, .375od x .208id x .005 thick	1
2.14	92185A540		1
3	80-00018-001 (COTS RF)	Waveguide Deck	1
3.1	25-30005-001	X Band Circulator (Alphatron Electronics BJC1649)	1
3.2	25-30002- 001corrected mb	Coupler, WR90, 10.8 - 12.2 GHz, Connecticut Microwave Corp. #CM542.0003	1
3.3	18-00001-002	Flann Microwave #16336	1
3.4	25-12004-002	H-Plane, WR90 x 1.64 x 1.44 x 90 deg, Choke/Cover	2
3.5	25-30001-001	Limiter, WR90, 9.3-9.5GHz (e2v Technologies #B3LT1610)	1

3.6	25-11003-004	E-Plane, WR90 x 180 DEG Offset, COVER/COVER	1
3.7	25-30003-001mb	Reactel Inc #5W8-9410-X60F	1
3.8	25-30006-001	WR-90 SMA-F (Pasternack PE9804)	1
3.9	41-00001-001	Collar, Rotary Joint Alignment	1
3.1	25-00008-001	WR90 Blank Flange	1
3.11	42-00037-001	Support, Waveguide	2
3.12	42-00036-001	Plate, Waveguide Deck	1
3.13	42-00038-001	Support Rail, Waveguide Deck	1
3.14	42-00038-002	Support Rail, Waveguide Deck	2
3.15	42-00038-003	Support Rail, Waveguide Deck	1
3.16	42-00037-002	Support, Circulator	1
3.17	25-30007-001	SMA Female Isolator 7 to 12.4 GHz	1
3.18	80-00019-002	Bracket Assembly, Hall Effect Sensor	1
3.18.1	80-00019-001	Bracket, Hall Effect Sensor	1
3.18.1.1	40-00006-001	Bracket, Hall Effect Sensor	1
3.18.1.2	FHS-440-16	Self-Clinching Threaded Stud - Type FHS 4-40 Thread	2
3.18.2	42-00054-001	Bracket, Sensor Norcross	1
3.18.3	OPB770TZ		1
3.18.4	90257A005		2
3.19	42-00037-003	Spacer, Waveguide Support	2
3.2	flann mating connector		1
3.20.1	flann 1		1
3.20.2	Flann 2		1
3.20.3	flann3		1
3.20.4	flann4		2
3.21	RF-IF COTS Assy (040913)	RF-IF COTS Assy - Active Doubler	1
3.21.1	RFSP2TA0612G	Absorptive 2-18GHz Coaxial SP2T Switch	1
3.21.2	1055064-1	SMA Right Angle Plug to Jack	2
3.21.3	RLNA10G11G	Narrow Band Low Noise Amp 10.7- 11.7GHz	1
3.21.4	RFSP3TA0218B	SP3T PIN Diode Switch	1
3.21.5	1053635-1	SMA Straight Plug to Plug Adapter	4
3.21.6	25-30006-001	WR-90 SMA-F (Pasternack PE9804)	2
3.21.7	40-00016-001	Bracket - RF Deck Module	1
3.21.7.1		Sheet	-
3.21.8	25-30007-001	SMA Female Isolator 7 to 12.4 GHz	1

3.21.9	M8-0412LZ	Marki Double Balance Mixer M8-0412LZ	1
3.21.10	FB-0785	Bandpass Filter 7.25-8.45GHz	1
3.21.11	132171	SMA M-F Straight Adapter	1
3.21.12	ADA-0306P	SMA FEMALE AMPLIFIER FREQUENCY DOUBLER (Marki)	1
3.21.13	CCSMA18-MM-141-4	Crystek SMA Semi Ridig Cable .141 dia	1
3.21.14	CCSMA18-MM-141-6	Crystek SMA Semi Ridig Cable .141 dia	1
3.22	1055064-1	SMA Right Angle Plug to Jack	2
3.23	1053635-1	SMA Straight Plug to Plug Adapter	1
3.24	132171	SMA M-F Straight Adapter	1
3.25	132339	SMA Right Angle Plug to Plug Adapter	1
3.26	94150A335		5
3.27	92290A140		4
3.28	92290A154		6
3.29	91792A163		1
3.3	92290A168		2
3.31	92196A154		2
3.32	92949A146		3
3.33	92185A163		4
3.34	92196A052		1
4	80-00013-001		1
4.1	42-00027-001	Housing, Pulse Modulator	1
4.2	25-20003-002 revised mb		2
4.3	80-00017-001		1
4.3.1	20-00002-002		1
4.3.2	50-57-9402 molex		2
4.3.3	2-87456-2		1
4.3.4	93505A432		4
4.4	42-00009-002	Support, Magnetron	2
4.5	20A 3-pin CONEC 303W3 Socket	CONEC 13K1A1713	1
4.6	17-10010-001	Conn, D-Sub 15, Socket, Solder Cup, TE Connectivity C-5-747909	1
4.7	15 Pin Backshell		2
4.8	88-00002-001		1
4.8.1	LWG_PWM_Rev2		1

4.8.2	17-10018-001		2
4.8.3	17-10019-001		1
4.8.4	17-10020-001		1
4.8.5	17-10021-001		1
4.8.6	Transformer		2
4.8.7	STW15NK90K (TO-247)		8
4.9	03-09-1032		3
4.1	59-00008-001		2
4.11	901-9209a_Rev-k		1
4.12	42-00025-002	Heat Spreader, Pulse Modulator MosFETs	2
4.13	42-00027-003	Cover Pulse Modulator Housing, Magnetron Cavity	1
4.14	42-00027-002	Cover Pulse Modulator Housing, Power Supply Cavity	1
4.15	80-00022-001	Equipment Safety Lanyard	1
4.15.1	42-00045-001	Lanyard Anchor	1
4.15.2	59-00014-001	Split Ring, .68OD x .57ID McMasterCarr 90905A652	1
4.16	HS418-ND (7721-7PPSG)	Insulating Shoulder Washer	1
4.17	93505A432		10
4.18	92710A216	Jack Screw 4-40 M/F, 3/16 Hex x 1/4" Thread, McMaster Carr #92710A216	4
4.19	92185A079		1
4.2	92949A077		2
4.21	92949A108		1
4.22	92949A106		1
4.23	91841A007		1
4.24	92949A148		2
4.25	92949A146		1
4.26	92095A183		1
5	80-00015-001	Power Supply Module	1
5.1	42-00035-001	Housing, Power Supply	1
5.2	88-00008-001	Power Regulator Board	1
5.2.1	LWG_Power_V2		1
5.2.2	17-10022-001		1
5.2.3	17-10003-001		1
5.3	59-00008-001		2
5.4	80-00022-001	Equipment Safety Lanyard	1

5.4.1	42-00045-001	Lanyard Anchor	1
5.4.2	59-00014-001	Split Ring, .68OD x .57ID McMasterCarr 90905A652	1
5.5	LCC250-24U-4P		1
5.6	42-00065-001	Heat Sink, Power Supply	1
5.7	Thermal Pad (.040 thk)		1
5.8	92949A077		1
6	80-00020-001 (mod 072913)		1
6.1	42-00041-001 (072513)	Backplane PCB Mounting Shield	1
6.2	42-00042-001	Standoff, Backplane	5
6.3	1059465-1		2
6.4	42-00043-001	Connector Housing, Backplane RF Blind Mate	1
6.5	Backplane mod 072913		1
6.5.1	Backplane Board Rev 080813 PCN10-44P-		1
6.5.2	2.54DSA(72) (modified 050912))		1
6.5.3	85042-0385		1
6.5.4	IPL1-110-01-X-S-K		1
6.5.5	IPL1-106-01-X-D-K		1
6.5.6	IPL1-106-01-X-S-K		1
6.5.7	IPL1-105-01-X-D-K		1
6.5.8	3-641215-5		1
6.6	SBHCSCREW 0.112- 40x0.25-HX-N		2
7	80-00021-002	Motor & Driver Assembly, Oriental Motor	1
7.1	21-00004-001	Oriental Motor, BLHM230KC-GFS / GFS2G20	1
7.2	54-00004-001	Gear, Helical w/ Hub, 1.331OD x 0.300 Bore x 1.293PD, 303SS	1
7.3	42-00044-003	Bracket, Mount, Oriental Motor	1
7.4	42-00044-002	Bracket, Motor Mount	1
7.5	20-00003-001		1
7.6	42-00044-004	Bracket, Controller, Oriental Motor	1
7.7	42-00047-001	Shaft Sleeve -Motor Encoder	1

7.8	QD200-0505-2048-0-03-T9-01-00		1
7.9	91292A048		4
7.1	91828A231		4
7.11	92095A182		3
7.12	92095A179		2
8	80-00028-001	Laptop Power Block Mount	1
8.1	42-00051-001	Housing, USB Extender	1
8.2	422C-1028-00		2
8.2.1	4220001-00_Custom Assy 422C-1028		1
8.2.2	4220004-00		1
8.2.3	Center Wedge		1
8.2.4	4220005-00		1
8.2.5	1020222x-00		1
8.2.6	1040070-00		1
8.2.7	4220006-00_DRAWING		1
8.2.8	4220007-00_225		1
8.3	80-00022-001	Equipment Safety Lanyard	1
8.3.1	42-00045-001	Lanyard Anchor	1
8.3.2	59-00014-001	Split Ring, .68OD x .57ID McMasterCarr 90905A652	1
8.4	PS with Volex Cable	M4700 PS w/ Volex 132308/4 (HG03-065-13) Cable	1
8.5	40-00019-001	Bracket - Laptop Power Supply	1
8.5.1		Sheet	-
8.6	Pro Tek5 Isolator (Board only)		1
8.7	94639A460		2
9	39-01-2221		1
10	39-01-2041		1
11	39-01-2045		1
12	39-01-2225		1
13	40-00008-001	Bracket, Connector Wave Guide Deck	1
13.1		Sheet	-
14	17-10027-001	Connector, Box Mount, Amphenol MS3102E20-18P	1
15	9370030801		2
16	40-00009-001	Bracket, Surge Arrestor	1

16.1		Sheet	-
17	ERZC32EK391		1
18	40-00013-001	Bracket, Electrical Cover	1
18.1		Sheet	-
19	80-00029-001	Laptop Enclosure Assembly	1
19.1	42-00059-001		1
19.2	42-00059-002	Panel Cover, Laptop Enclosure	1
19.3	59-00021-001	Oring, Laptop Enclosure, Conductive	1
20	40-00011-001	Bracket, Fuse	1
21	432-1266-ND		1
22	6VSK1	Power Line Filter (Corcom)	1
23	PWI-0109	POE-24i Module for AFAR Radio	1
24	Daq-Ric combo assy		1
24.1	DAQ-RIC BOARD ASSY		1
24.1.1	DAQ-RIC Combo Board		1
24.1.2	85003-0567		1
24.1.3	44812-0024		1
24.1.4	52437-3071		1
24.1.5	AU-Y1007-R		2
24.1.6	103167-3		1
24.1.7	103635-5		1
24.1.8	5103311-1		1
24.1.9	705550001		2
24.1.10	17-10019-001		1
24.1.11	SSF-LXH100ID	LED RED (Digikey 67-1217-ND)	1
24.1.12	SSF-LXH100GD	LED Green (Digikey 67-1218-ND)	1
24.1.13	SSF-LXH100YD	LED (Digikey 67-1224-ND)	1
24.1.14	TPB11CGRA004	Switch Push SPST NO (Digikey 450- 1376-ND)	1
24.2	88-00004-001 rev4		1
24.2.1	LOM_34- 4400_Rev4_wPADS		1
24.2.2	90120-0926		1
24.2.3	705550001		1
24.2.4	SSF-LXH100ID	LED RED (Digikey 67-1217-ND)	1
24.2.5	SSF-LXH100GD	LED Green (Digikey 67-1218-ND)	1
24.2.6	17-10019-001		2
24.2.7	50-57-9402		1
24.3	88-00003-001	BBM Board Assy - 072513	1

24.3.1	IQ-ADC-Rev-3 (072513)		1
24.3.2	705550001		1
24.3.3	67996-210HLF		1
24.3.4	52437-3071		1
24.3.5	50-57-9402		1
25	TU-110 Assy		1
26	GA25MCX	Garmin GA25MCX Antenna (P/N 013-00202-00)	1
27	LNx-500AG-T	AAXEON Gigabit Switch LNx- 500AG-T	1
28	48-00001-00X	Laufer Wind Radar, OLCU & Central Controller	1
29	92949A264		1
30	92185A991		1
31	91251A539		1
32	92185A196		1
33	8891T32	.25-20 x 1.0 SST Eyebolt	4