

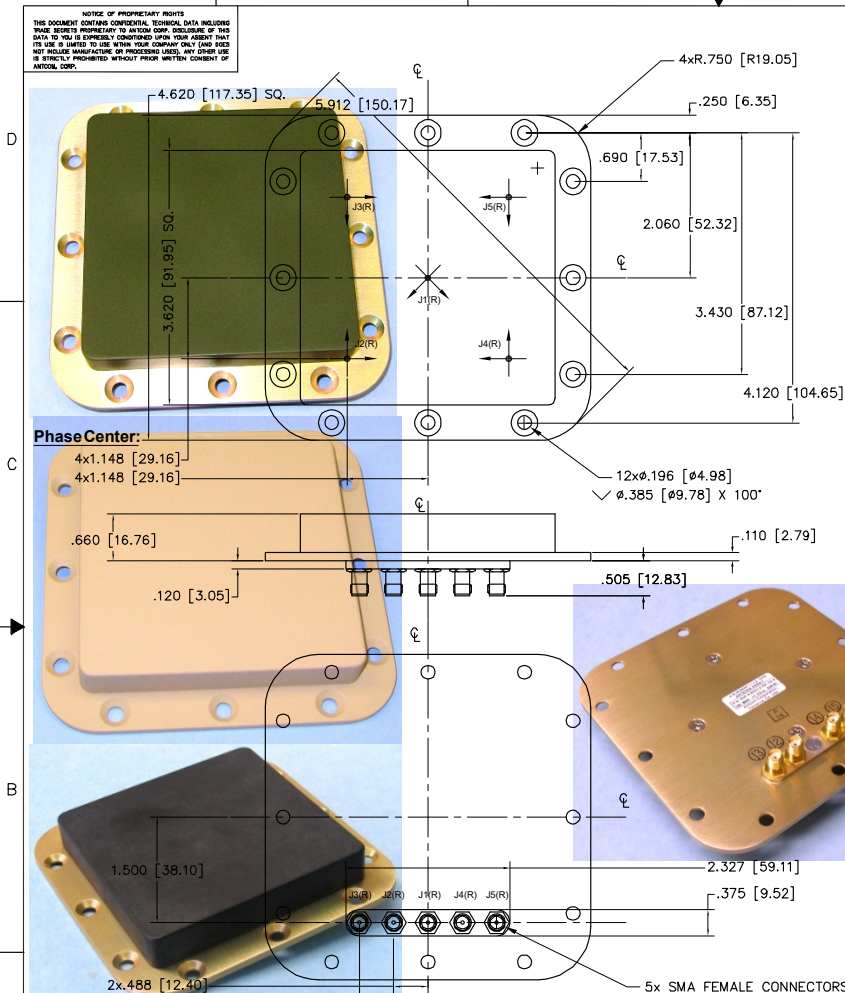
“-PL-” or “-AL-” for Limiter Options for High Power Pulse Protection

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Wide Band GNSS Option Is Available. Compatibility to IGAS Receiver Options are Available.

Antenna Mounts: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf Amplifiers/Power Divider/Combiner/Filterers: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf

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### SPECIFICATIONS

ELECTRICAL:	
FREQUENCY +/- 1dB BW:	L1: (1575.42 ± 50) MH z L2: (1227.60 ± 27) MH z
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 2.0:1
IMPEDANCE:	50 ohms
ELEMENT ANTENNA GAIN (dBic):	3 in G.P. In ARRAY
@ 90° (ZENITH):	+ 3.8 Amplitude/Phase
@ 10° Elevation:	- 4.3
@ 20° Elevation:	- 2.2
@ 30° Elevation:	- 0.7
@ 60 - 90° Elevation:	> 2.5 in ASCII Format
BEAM WIDTH (3dB):	120 Deg.
HIGH POWER PROTECTION	OPTIONAL: WITH FILTER/LIMITER (INPUT: +50dBm, OUPUT:+30 dBm)

### LNA OPTION

LNA GAIN:	(22.0 +/- 2.0)dB
LNA NOISE FIGURE:	1.8 dB
LNA P 1dB Out:	+16 dBm
VOLTAGE/CURRENT:	(+2.5 TO +5) Volts DC / (15 TO 25) mA

### MECHANICAL:

SIZE:	4.62IN SQ. HEIGHT 0.660 in. [16.76 mm]
WEIGHT:	<14oz. (397 g)
FINISH:	SKYDROLRESISTANTPOLYURETHANEENAMEL BASE IRIDI TE PER MIL-C-5441
MATERIAL:	6061-T6ALUMINUMALLOY BASE COMPOSITE RADOME,IMPACT,ABRASION,UV,SOLVENT, SKYDROLRESISTANCEAND FIRE RETARDANT
CONNECTOR:	SMA FEMALE (OPTION:RIGHT ANGLE SMA, MCX, MMCX)

### ENVIRONMENTAL:

TEMPERATURE:	-67° F TO +185° F [-55° C TO +85° C]
ALTITUDE:	70,000ft.
VIBRATION:	> 30 G's
LEAKAGE:	HERMETICALLY SEAL

### FEDERAL & MILITARY SPECIFICATIONS

DESIGN TO:	FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810 AND SAE J1455
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### ACCEPTANCE TEST PROCEDURE

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	ITEM NO
4	MOUNTING SCREWS: 10-32, 3/4"			5
A/R				3
1	ADHESIVE GASKET		12345G-3M-3G	1

CONFORMALITY:	SIZE (INCHES):	SHAPE	LNA:	CONFORMAL RADIUS OPTION:
CC: CONFORMAL/CURVED	3.75" SQ.	C: CIRCULAR	A: WITH LNA	-3: 3.000" RADIUS (SDBII)
CF: CONFORMAL/FLAT	3.5" SQ.	S: SQUARE	AL: WITH LNA/LIMITER/FILTER INPUT:+50dBm OUPUT:+30dBm	-3.5N: 3.500" RADIUS (NETFIRE, GMLRS, NLOS)
NF: NOT CONFORMAL/FLAT	3.5" CIRCULAR	T: TRIANGULAR	P: WITHOUT LNA	-4P: 4.000" RADIUS (PAVEWAY)
NC: NOT CONFORMAL/CURVED	H: HEXAGON	H: HEXAGON	PL: PASSIVE WITH LIMITER/FILTER INPUT:+50dBm, OUPUT:+30dBm	-6M: 6.000" RADIUS (MAYERCK)
	R: RECTANGULAR	R: RECTANGULAR		-7.5EM: 7.500" RADIUS (EGSU, MALD)
				-14A: 14.00" RADIUS (ACM)
				-X: X" RADIUS (0: Flat, No Radius)
				-F: FLAT (WITHOUT RADOME)

P/N: 5NC-4.6SG1215P-XS-4

NUMBER OF ELEMENT:	CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA: P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B	
M: MAG, N: NO MAG	M: MCX: MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B	
P: CABLE LENGTH (IN)	N: NB: N, N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B	
R: RIGHT ANGLE CON	T: TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS:	DECIMALS:	ANGLES:
± 1/64	.005, .015, .030 ± .005	± 1°

DRIVER: M. BOAS JOB# 15-03

DESIGNED BY: S. HUYNH JOB# 15-03

APPROVED: S. HUYNH JOB# 15-03

SCALE: 1/1

SHEET 1 OF 1

**ANTCOM CORP.** TORRANCE, CALIFORNIA

4.62in SQ. FRPA3 FOOT PRINT  
5 ELEMENT CRPA L1L2 GPS  
ANTENNA ARRAY

REV: D 3CVE1 5NF-4.6SG1215P-XS-4