

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

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ± 24) MHz	L2: (1227.60 ± 24) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	RHCP
VSWR:	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms
ELEMENT ANTENNA GAIN (dBic):	3 in G.P.	3 in G.P.
@ 90 ° (ZENITH):	+ 3.8	+ 2.7
@ 10 ° Elevation:	- 4.3	- 6.3
@ 20 ° Elevation:	- 2.2	- 4.2
@ 30 ° Elevation:	- 0.7	- 2.4
@ 60 - 90 ° Elevation:	> 2.5	> 1.3
BEAM WIDTH (3dB):	120 Deg.	90 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: 5.450 in [138.43 mm] X 6.511 in [165.39 mm]
 HEIGHT: 0.689 in. [17.50 mm]
 WEIGHT: 14.5 oz. (411g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: 4X SMA FEMALE (OPTION: SMB, SSMB, SMC, SSMC, MCX, MMCX)

ENVIRONMENTAL:

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

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	REV NO
				3
				2
				1

ANTCOM CORP. TORRANCE, CALIFORNIA

4-ELEMENT L1L2 GPS CRPA ANTENNA

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 ± .005 ± 1°

ORIGINAL DRAWN S. HUYNH Jun-15-05
 ORIGINAL DESIGNED S. HUYNH Jun-15-05
 UPDATED S. HUYNH Oct-23-14
 UPDATE DRAWN P. TRAN Oct-23-14
 APPROVED S. HUYNH Oct-23-14

REMOVE ALL SURFS BREAK EXTERNAL EDGES .005 TO .015 SURF FINISHES PER MIL-C-8878 315 ON A DIMENS PER 27.009 MACHINED SURFACES

DO NOT SCALE DRAWING

SCALE 1/1

SHEET 1 OF 1

P/N: 4CC-5.5X6.5DSG1215P-XS-2R

CONFORMALITY:	SIZE (INCHES):	FREQ. BAND:	LNA:	CONNECTOR:	COLOR:
CC: CONFORMAL/CURVED	5.5" X 6.5"	1215: L1/L2	P: WITHOUT LNA	S: SMA; F: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
CF: CONFORMAL/FLAT	3.75" SQ.	15: L1 ONLY	A: WITH LNA	M: MCX; MM: MMCX	-2R: GRAY #36375 PER FED-STD-595B
NF: NOT CONFORMAL/FLAT	3.5" SQ.	1216: L1/L2 GPS & Glomass	N, NB: N, N-Bulkhead	T, TB: TNC, TNC-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
NC: NOT CONFORMAL/CURVED	3.5" CIRCULAR				-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
					-5: TAN #33446 PER FED-STD-595B