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TECHNOLOGY GROUP

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so your equipment works exactly as you specify.

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3-Element-5-Channel (1 RHCP, 2 E/2 H) CRPA L1/L2 GPS Antenna Array (4.72" Dia. x 0.428" Thick), P/N: 3NF-4.7CG1215P2L-XS-4 Rev A (Passive)

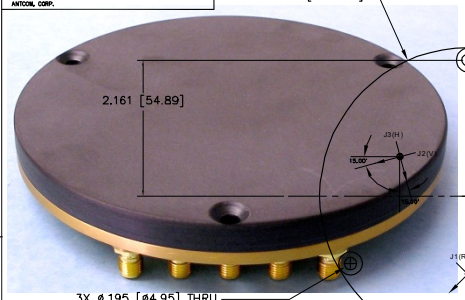
FAA Approved Facility

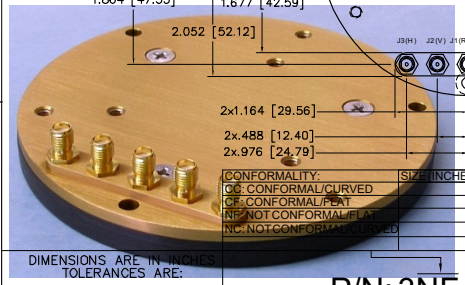
"-PL-" or "-AL-" for Limiter Options for High Power Pulse Protection

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

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

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SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±15) MHz			L2: (1227.60 ±15) MHz		
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP			RHCP		
VSWR:	< 1.5:1			< 1.5:1		
IMPEDANCE:	50 ohms			50 ohms		
ANTENNA ELEMENT GAIN (dBic):	Free Space	3.5 in Dia.	4 ft G.P.	Free Space	3.5 in Dia.	4 ft G.P.
@ 90 ° (ZENITH):	+ 4.5	+ 5.4	+ 2.4	+ 2.5	+ 4.1	+ 5.6
@ 10 ° Elevation:	- 1.5	- 1.6	- 1.7	- 4.3	- 3.2	- 2.8
@ 20 ° Elevation:	0.0	0.0	+ 0.9	- 3.0	- 1.6	+ 0.5
@ 30 ° Elevation:	+ 1.1	+ 1.3	+ 2.0	- 1.5	- 0.3	+ 2.4
@ 60 - 90 ° Elevation:	> 3.0	> 4.2	> 2.5	> 1.7	> 2.7	> 3.6
BEAM WIDTH (3dB):	112 Deg.	102 Deg.	145 Deg.	104 Deg.	93 Deg.	80 Deg.
AXIAL RATIO:	2 dB			2 dB		
LIGHTNING PROTECTION:	DC GROUNDING					
POWER HANDLING:	200 Watt CW					

MECHANICAL:

SIZE:	DIAMETER: 4.72 in [119.89 mm] HEIGHT: 0.428 in. [10.87 mm]
WEIGHT:	12oz. (340 g)
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:	SMA FEMALE (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

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	PART NO	FINISH	ITEM NO
4	–	MOUNTING SCREWS: 10–32, 3/4"	MS24693C274	–	5
A/R	–			–	3
1	1			–	1
–2	–1	PARTS LIST			

CONFORMALITY:	SIZE (INCHES):	SHAPE	FREQ. BAND:	LNA:
C: CONFORMAL/CURVED		C: CIRCULAR	1215: L1/L2	A: WITH LNA
F: CONFORMAL/FLAT		S: SQUARE	15: L1 ONLY	AL: WITH LNA/LIMITER
NF: NOT CONFORMAL/FLAT		T: TRIANGULAR		P: WITHOUT LNA
NC: NOT CONFORMAL/CURVED		H: HEXAGON		P2: WITHOUT LNA/DUAL RHCP/LHCP POL.
		R: RECTANGULAR		P2L: WITHOUT LNA/DUAL LNEAR POLARIZATION

P/N: 3NF-4.7CG1215P2L-XS-4

NUMBER OF ELEMENT:	CABLE'S 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
	#: 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

DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± 1/64 DECIMALS .XXX ± .020

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± 1/64 DECIMALS .XXX ± .030 ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON ⌀ .005
MACHINED SURFACES 125
DO NOT SCALE DRAWING

DRAWN
CHECKED M. BOAS Mar-07-05
ENGINEER
APPROVED S. HUYNH Mar-07-05
CAD FILE NO

ANTCOM CORP. TORRANCE, CALIFORNIA
3-ELEMENT
5 CHANNEL PASSIVE L1L2 GPS
ANTENNA ARRAY
(1 RHCP, 2E, & 2 H)

SIZE D | CAGE NO 3CVE1 | DRAWING NO 3NF-4.7CG1215P2L-XS-4 | REV A
SCALE 1/1 | SHEET 1 OF 1

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

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

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