



FAA Approved Facility

4 Element CRPA L1L2 GPS Antenna Array

P/N: 4NF-4.7CG1215P-XS-1-13.9-1

4.70" Dia. x 0.547" Thick

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

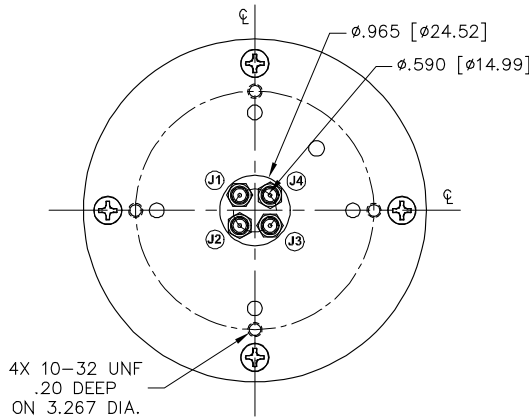
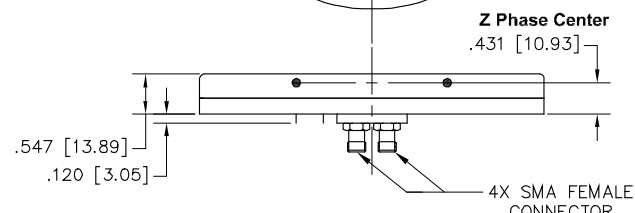


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X, Y Phase Center
4X Equally Space
On 2.917" DIA.

4X ϕ .201 [ϕ 5.11] THRU
 $\sqrt{\phi}$.390 [ϕ 9.91] X 100°
ON 2.687 DIA.



SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz		L2: (1227.60 ±12) 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	
NULL DEPTH:	> 30 dB (Analog), 55-60 dB (Digital)					
LIGHTNING PROTECTION:	DC GROUNDING					
POWER HANDLING:	200 Watt CW					

MECHANICAL:

SIZE: DIAMETER: 4.70 in. [119.38 mm]
HEIGHT: 0.547 in. [13.89 mm]

WEIGHT: TBD

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:

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	ITEM NO
4	MOUNTING SCREWS: 10-32, 1.00"	MS24693C276, Item 579	-	1
-2				

CONFORMALITY:	SHAPE:	FREQ. BAND:	LNA:	CONNECTOR:	COLOR:
CC: CONFORMAL/CURVED	C: CIRCULAR	1215; L1/L2	A: WITH LNA	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
CF: CONFORMAL/FLAT	S: SQUARE	15; L1 ONLY	AL: WITH LNA/LIMITER	M: MCX; MM; MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
NF: NOT CONFORMAL/FLAT	T: TRIANGULAR		P: WITHOUT LNA	N: NB; N: N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
NC: NOT CONFORMAL/CURVED	R: RECTANGULAR			T: TB; TNC; TNC-Bulkhead	-30: OLIVE DRAB GREEN #34088 PER FED-STD-595B
				X: X in Cable	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
					-5: DESERT TAN #33446 PER FED-STD-595B

P/N: 4NF-4.7CG1215P-XS-1-13.9-1

ANTCOM CORP. TORRANCE, CALIFORNIA
4.7" DIA. 4 ELEMENT
L1/L2 GPS SMALL
CIRCULAR ANTENNA ARRAY

REV: 3CVE1
SCALE: 1/1
SHEET 1 OF 1

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/Filters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf>