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Wide Band GNSS Option Is Available

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

**FRPA MOUNTING ADAPTER**

Top View:  $\phi 3.500$  [88.90], 5X  $\phi 0.201$  [5.11] THRU  $\phi 0.385 \times 100^\circ$  EQUALLY SPACED (72°) ON 1.521 RAD.

Side View: Z Phase Center .569 [14.46], .680 [17.28]

Bottom View:  $\phi 1.600$  [40.64] THRU, 5X 10-32 UNF THRU EQUALLY SPACED (72°) ON R1.521

Detail View:  $\phi 0.424$  [10.78]

FRPA Adapter:  $\phi 3.500$  [88.90], 4X  $\phi 0.201$  [5.11] THRU  $\phi 0.385 \times 100^\circ$  EQUALLY SPACED ON  $\phi 2.687$

Mounting Screws: 5X 10-32 UNF THRU EQUALLY SPACED (72°) ON R1.521

Dimensions: 1.900 [48.25], .200 [5.08], R4.000 [R101.60] (Other Radius Are Available)

**SPECIFICATIONS**

ZONE	REV	REVISIONS		
		DESCRIPTION	DATE	APPROVED
-	-	-	-	-

**ELECTRICAL:**

FREQUENCY +/- 1dB BW:	L1: (1575.42 ± 50) MHz	L2: (1227.60 ± 27) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	RHCP
VSWR:	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms	
ELEMENT ANTENNA GAIN (dBic):	3 In G.P.	In ARRAY
@ 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 LIMITER SIMILAR TO THAT OF PAVEWAY-002	

**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: DIAMETER 3.50 in. [ 88.90 mm]  
 HEIGHT 0.680 in. [17.28 mm]  
 WEIGHT: 5.15 oz. (.146 Kg)  
 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: 5 36° CABLES/ SMA FEMALE  
 (OPTION: 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-H-45208A, MIL-STD-810, AND SAE J1455

**ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

QTY	DESCRIPTION	PART NO	ITEM NO
1	FLAT FRPA MOUNTING ADAPTER	496B3, Item 496B3	4
1	4" RAD. FRPA MOUNTING ADAPTER (OPTIONAL)	496B3R, Item 496B3R	3
9	MOUNTING SCREWS, 10-32, 7/8" L	93085A832, Item 578-7/8	2
1	O-RING	2-031/N756-75, Item 550	1

**ANTCOM CORP.** TORRANCE, CALIFORNIA

5 ELEMENT CRPA L1L2 GPS ANTENNA ARRAY

DATE: 05-07-09  
 DRAWN BY: S. HUYNH  
 CHECKED BY: P. TRAN  
 APPROVED BY: S. HUYNH

SCALE: 1/1 SHEET 1 OF 1

**P/N: 5NF-3.5CG1215P-36S-4**

FREQ. BAND:	LNA:	CONNECTOR:	COLOR:
1215; L1/L2	A: WITH LNA	S: SMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
T8; L1 ONLY	AL: WITH LNA/LIMITER	M: MCX; MM: MMCX	-2: LUS'ERLESS GRAY #36320 PER FED-STD-595B
	P: WITHOUT LNA	X: NO CABLE	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
			-4: LUS'ERLESS BLACK #37038 PER FED-STD-595B
			-5: TAN #33446 PER FED-STD-595B

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
 NOTES: UNLESS OTHERWISE SPECIFIED: