



FAA Approved Facility

8-Element RHCP L1/L2 GPS Antenna Array

P/N: 8NF-7.2CG1215P-R-XS-4-1.2 (L1/L2); P/N: 8NF-7.2CG15P-R-XS-4-1.2 (L1 Only)

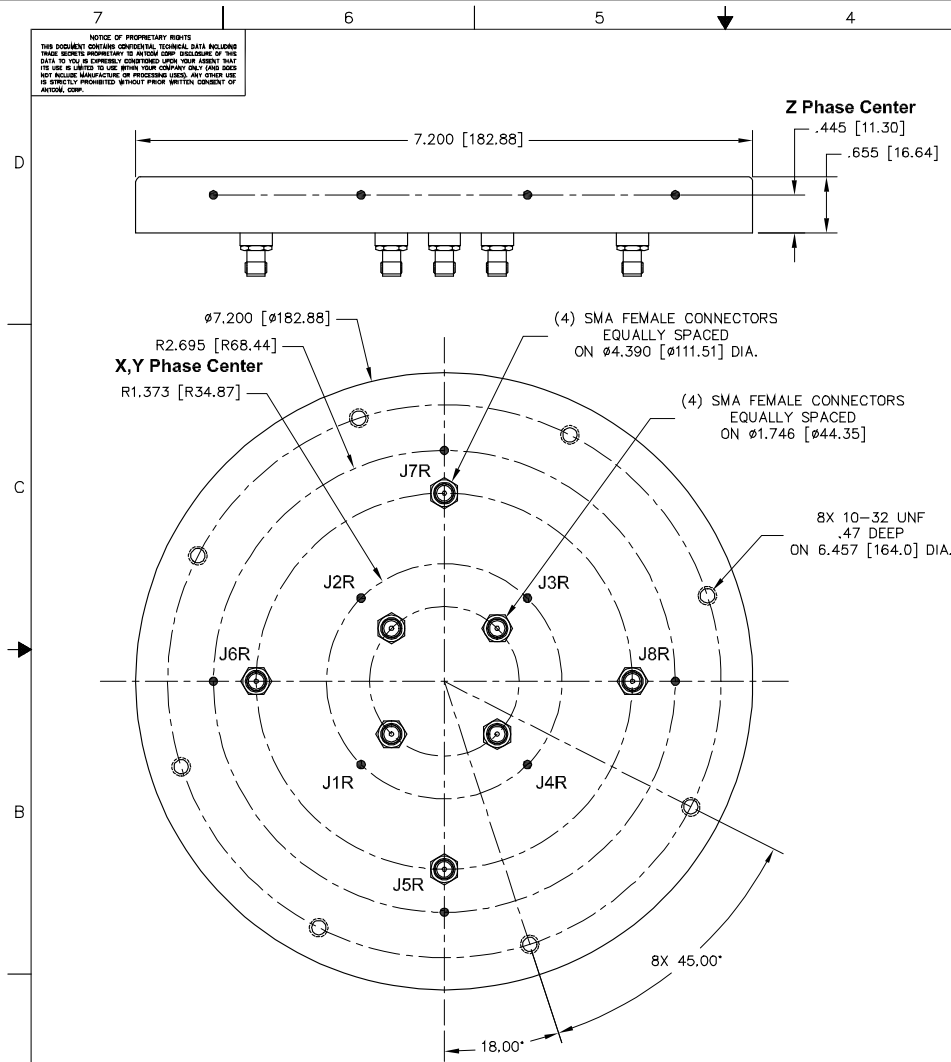
(7.2" Dia. x 0.655" Thick)

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



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Wide Band GNSS Option Is Available



P/N: 8NF-7.2CG1215P-R-XS-4-1.2

NUMBER OF ELEMENT: SIZE (INCHES):	FREQ. BAND: 1215: L1/L2 15: L1 ONLY	LNA: A: WITH LNA AL: WITH LNA/LIMITER P: WITHOUT LNA	CONNECTOR: S: SMA: P: PINS M: MCX: MM: MMCX N, NB: N, N Bulkhead T, TB: TNC, TNC-Bulkhead	COLOR: -1: GLOSS WHITE #17925 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B -3: CAMO GREEN #34094 PER FED-STD-595B -4: LUSTERLESS BLACK #37038 PER FED-STD-595B -5: DESERT TAN #33446 PER FED-STD-595B
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SPECIFICATIONS

ELECTRICAL:

	L1: (1575.42 ±12) MHz		L2: (1227.60 ±12) MHz			
FREQUENCY:						
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP		RHCP			
VSWR:	2:1		2:1			
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: 7.20 in. [182.88 mm] HEIGHT: .655 in. [16.64 mm]
WEIGHT:	1.3 lbs. (0.59 Kg)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441F
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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455
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ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

4	-	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	1
-2	-1	DESCRIPTION	PART NO	FINISH	QTY
QUANTITY REQD		PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 .005 ± 1°		ORIGINALLY DESIGNED S. HUYNH Dec-18-13	ANTCOM CORP. TORRANCE, CALIFORNIA		
TOLERANCE SVM PER ANSI Y14.5 REMOVE ALL DIMS BREAK EXTERNAL EDGES .005 TO .015 SHEET METAL PER MIL-S-8878 DIMS ON A CORNER ± .005 MACHINED SURFACES 12°		ORIGINALLY DESIGNED S. HUYNH Dec-18-13	8 ELEMENT L1L2 GPS RHCP ANTENNA ARRAY		
DO NOT SCALE DRAWING		DATE July-07-16	APP'D P. TRAN	D 3CVE1	
		APPROVED S. HUYNH July-07-16	PART NO 8NF-7.2CG1215P-R-XS-4-1.2		SHEET 1 OF 1
		SCALE 1/1			

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