



FAA Approved Facility

4-Element L1/L2 GPS Triangular Antenna Array (8" x 5" x 0.66"), P/N: 4NF-8TG1215P-XS-X

"-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

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CC: CONFORMAL CURVED	SIZE (INCHES):	SHAPE:	FREQ. BAND:	LNA:
CG: CONFORMAL FLAT		C: CIRCULAR	1215, L1/L2	A: WITH LNA
CF: NOT CONFORMAL		S: SQUARE	15: L1 ONLY	AL: WITH LNA/LIMITER
NC: NOT CONFORMAL CURVED		T: TRIANGULAR		P: WITHOUT LNA
		H: HEXAGON		
		R: RECTANGULAR		

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
IMPEDANCE:	50 ohms	
ANTENNA ELEMENT GAIN (dBic):	Free Space	4 ft G.P.
@ 90° (ZENITH):	+ 4.5	+ 4.1
@ 10° Elevation:	- 1.5	- 1.7
@ 20° Elevation:	0.0	+ 0.9
@ 30° Elevation:	+ 1.1	- 1.5
@ 60 - 90° Elevation:	> 3.0	> 2.7
BEAM WIDTH (3dB):	112 Deg.	93 Deg.
AXIAL RATIO:	2 dB	
NULL DEPTH:	> 55-60 dB	
LIGHTNING PROTECTION:	DC GROUNDING	
POWER HANDLING:	200 Watt CW	

MECHANICAL:

SIZE: WIDTH: 8.078in [205.18mm], LENGTH: 5.828in [148.03mm]
HEIGHT: 0.580 in. [14.73 mm]

WEIGHT: 12.5 oz. (354 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

6	-	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	5
A/R	-			-	3
1	1			-	1
-2	-1	DESCRIPTION	PART NO	FINISH	QTY

UNLESS OTHERWISE SPECIFIED		ANTCOM CORP. TORRANCE CALIFORNIA	
DIMENSIONS ARE IN INCHES		4 ELEMENT L1/L2 GPS TRIANGULAR ANTENNA ARRAY	
TOLERANCE UNLESS OTHERWISE SPECIFIED			
± 1/64	± 1"	DESIGNED BY: M. BOAS	DATE: May-29-01
± 0.005	± 0.010	CHECKED BY: S. HUYNH	DATE: May-29-01
± 0.002	± 0.005	APPROVED BY: S. HUYNH	DATE: May-29-01
± 0.001	± 0.002		
DO NOT SCALE DRAWING		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