



FAA Approved Facility

5 Element CRPA L1/L2/L5 GPS/GLONASS Antenna Array (5.56" Dia. X .63" Thick), P/N: 5NF-5.5CL1215P-XS-4

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



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Wide Band GNSS Option Is Available

5x ϕ .195 [ϕ 4.95]
v ϕ .385 [ϕ 9.78]

ϕ 5.560 [ϕ 141.22]

X, Y Phase Center
5X Equally Space
On 3.368" DIA.

.628 [15.95]

Z Phase Center

.460 [11.68]

.475 [12.07]

5X 10-32 UNF .20 DEEP
on 5.175" DIA.

5X SMA CONNECTORS
Equally Spaces
On 2.088" Radius

5X 10-32 UNF .20 DEEP
ON 1.540" DIA.

SPECIFICATIONS

ELECTRICAL:

	L5 GPS E5, E5a, E5b Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo B3 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
FREQUENCY:	1176.45 \pm 12 MHz 1164.45 - 1219.14 MHz 1176.45 \pm 15 MHz	1227.60 \pm 12 MHz 1207.14 \pm 10 MHz	1252.50 \pm 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 \pm 10 MHz	1576.42 \pm 15.0 MHz 1576.42 \pm 17.0 MHz 1575.42 \pm 12.0 MHz	1609 \pm 7.0 MHz
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP		RHCP		
VSWR:	< 2.0:1		< 2.0:1		
IMPEDANCE:	50 ohms				
ELEMENT GAIN (dBi):	Free Space	5in G.P	Free Space	5in G.P	Free Space
@ 90° (ZENITH):	- 4	- 3	+ 2.6	+ 3.2	+ 1.8
@ 10° Elevation:	- 11	- 11	- 3.7	- 3.6	- 4.9
@ 20° Elevation:	- 10	- 10	- 2.8	- 2.2	- 4.1
@ 30° Elevation:	- 9	- 8	- 1.4	- 0.2	- 2.4
@ 60-90° Elevation:	> - 6	> - 5	> + 1.4	> + 2.2	> + 0.6
BEAM WIDTH (3dB):	95 Deg.	100 Deg.	100 Deg.	107 Deg.	95 Deg.
AXIAL RATIO:	3 dB	3 dB	2 dB	2 dB	2 dB
LIGHTNING PROTECTION:	YES				

MECHANICAL:

SIZE: DIAMETER: 5.5600 in. [149.86 mm]
HEIGHT: 0.628 in. [15.95 mm]

WEIGHT: 1.22 lbs. (.554Kg)

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	RECD	DESCRIPTION	PART NO	FINISH	MTM NO.
4	-	MOUNTING SCREWS: 10-32, 1.00"	MS24693C276	-	5
A/R	-			-	3
1	1			-	1
-2	-1				

CONFORMALITY

SIZE (INCHES)	SHAPE	FREQ. BAND	LNA
CC: CONFORMAL/CURVED	C: CIRCULAR	1215: L1/L2	A: WITH LNA
CF: CONFORMAL/FLAT	S: SQUARE	11215: L5/L1/L2	AL: WITH LNA/LIMITER
NF: NOT CONFORMAL/FLAT	T: TRIANGULAR	15: L1 ONLY	P: WITHOUT LNA
NC: NOT CONFORMAL/CURVED	H: HEXAGON		
	R: RECTANGULAR		

P/N: 5NF-5.5CL1215P-XS-4

ANTCOM CORP. TORRANCE CALIFORNIA

5.5" DIA. 5 ELEMENT
L1/L2/L5 GPS/GLONASS
SMALL CIRCULAR ANTENNA ARRAY

SCALE 1/1

SHEET 1 OF 1

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