



FAA Approved Facility

(2.1-2.3)GHz Telemetry Antenna,

P/N: 3CG22RR-P-XS-4-1.989 (RHCP), P/N: 3CG22LL-P-XS-4-1.989 (LHCP)

3.5", Xin Radius Conformal Configurations

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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8x ϕ .164 [ϕ 4.17] Thru.
 \checkmark ϕ .325 [ϕ 8.26] X 100'

ANTENNA'S NORTH (FORWARD) DIRECTION INDICATION

P/N: 3CG22RR-P-XS-4-1.989

SIZE:	FREQ. BAND:	Polarization:	LNA:
1: 2" SQ.	1215: L1/L2	RR: RHCP	A: WITH LNA
1.9: 1.9" SQ.	15: L1 ONLY	LL: LHCP	AL: WITH LNA/LIMITER/FILTER (INPUT: +50dBm, OUPUT:+30 dBm)
2: 2.6" DIA.	22: 2.2-2.3 GHz		P: WITHOUT LNA
3: 3.5" DIA.	21: 2.1-2.2 GHz		PL: PASSIVE WITH LIMITER/FILTER (INPUT: +50dBm, OUPUT:+30 dBm)
4: MINI ARINC	09: GSM		

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: NO MAG.	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

3. PER LOCKHEED MARTIN IGES FILE
2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
NOTES: UNLESS OTHERWISE SPECIFIED:

SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		Release	08/26/09	S.H

ELECTRICAL:

FREQUENCY:	(2-1 to 2.3) GHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
GAIN (dBic):	Free Space 4 ft G.P.
@ 90° (Zenith):	+2.5 +4.6
@ 10° Elevation:	-4.3 -1.1
@ 20° Elevation:	-3.0 +2.2
@ 30° Elevation:	-1.5 +2.2
@ 60° to 90° Elevation:	> 1.7 >+3.4
BEAM WIDTH (3dB):	104° 129°
AXIAL RATIO @ Zenith:	2 dB
POWER HANDLING:	100 W
LIGHTNING PROTECTION:	DC GROUNDING

MECHANICAL:

SIZE: 3.50 in. [88.90 mm] SQ.
HEIGHT = 0.655 in. [16.64 mm]
WEIGHT: <5.5 oz. (160 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441
COLOR: FIELD GREEN, FED-STD-595, COLOR #3409 5
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 SEALED

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 REQD	DESCRIPTION	PART NO	FINISH	THM NO
4				5
1				1
-2				

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TOLERANCES UNLESS OTHERWISE SPECIFIED ANGLES DECIMALS .005 TO .015 .015 TO .030 .030 TO .060 .060 TO .125 .125 TO .250 .250 TO .500 .500 TO 1.000 1.000 TO 2.000 2.000 TO 5.000 5.000 TO 10.000 10.000 TO 30.000 30.000 TO 100.000 100.000 TO 1000.000

ANTCOM CORP. TORRANCE, CALIFORNIA
PASSIVE RHCP S-BAND ANTENNA

3CG22RR-P-XS-4-1.989

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas