



FAA Approved Facility

(1.25-1.35) GHz Antennas, P/N: 3G1.25-1.35RR-P-XS-1 (RHCP); P/N: 3G1.25-1.35LL-P-XS-1 (LHCP)
 (1.35-1.45) GHz Antennas, P/N: 3G1.35-1.45RR-P-XS-1 (RHCP); P/N: 3G1.35-1.45LL-P-XS-1 (LHCP)
 (2.00-2.30) GHz Antennas, P/N: 3G2.00-2.30RR-P-XS-1 (RHCP); P/N: 3G2.00-2.30LL-P-XS-1 (LHCP)
 (2.20-2.40) GHz Antennas, P/N: 3G2.20-2.40RR-P-XS-1 (RHCP); P/N: 3G2.20-2.40LL-P-XS-1 (LHCP)
 (2.40-2.50) GHz Antennas, P/N: 3G2.40-2.50RR-P-XS-1 (RHCP); P/N: 3G2.40-2.50LL-P-XS-1 (LHCP)
 (1.75-2.30) GHz Antennas, P/N: 3G1.80-2.25RR-P-XS-1 (RHCP); P/N: 3G1.80-2.25LL-P-XS-1 (LHCP)
 Other Frequencies, Antenna Sizes, Connectors/Locations, and Mounting Configurations are Available



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

NOTICE OF PROPRIETARY RIGHTS
 THIS DOCUMENT CONTAINS CONFIDENTIAL, TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORPORATION. THE USE OF THIS DATA BY YOU IS EXPRESSLY CONDITIONED UPON YOUR AGREEMENT THAT YOU WILL NOT DISCLOSE OR REPRODUCE THIS INFORMATION IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF ANTCOM CORPORATION.

SPECIFICATIONS

ELECTRICAL:

RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP or LHCP
VSWR:	< 1.5:1
GAIN (dB):	4 ft G.P. Free Space
@ 90° (Zenith):	+4.6
@ 10° Elevation (Ave):	-1.1
@ 20° Elevation (Ave):	+2.2
@ 30° Elevation (Ave):	+2.2
@ 45° Elevation (Ave):	+3.4
@ 70° Elevation (Ave):	+4.4
Beam Width (3dB):	110° 88°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

MECHANICAL:

SIZE: DIAMETER = 3.50 in. [88.90 mm]
 HEIGHT = 0.722 in. [18.34 mm]

WEIGHT: 5.15 oz. (.146 Kg)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441F

COLOR: GLOSS WHITE #17925 PER FED-STD-595B
 LUSTERLESS GRAY #36320 PER FED-STD-595B
 OLIVE DRAB GREEN #34031 PER FED-STD-595B
 LUSTERLESS BLACK #37038 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, 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

ZONE	REV	DESCRIPTION	DATE	APPROVED

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

NOTES: UNLESS OTHERWISE SPECIFIED:

P/N: 3GX.XX-Y.YYRR-P-XS-1

SIZE:	(START - END) FREQ:	POLARIZATION:	LNA:	FILTER:
1.2" SQ.	1.25 - 1.35 GHz	LL: LHCP	A1: WITH +23 dB LNA	
1.9" 1.9" SQ.	1.35 - 1.45 GHz	RR: RHCP	A2: WITH +43 dB LNA	
2.6" DIA.	2.00 - 2.30 GHz		P: WITHOUT LNA	
3.3" DIA.	2.20 - 2.40 GHz			
4" MINI ARINC	2.40 - 2.50 GHz			
	X.XX - Y.YY GHz			

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	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
		-5: TAN #33446 PER FED-STD-595B

QUANTITY REQD: -2 -1

DETAILED PARTS LIST

QTY	PART NO	MATERIAL	FINISH	ITEM NO
	MOUNTING SCREWS: 10-30 3/4"	MS24693C274		3
	O-RING	2-031/N756-75		2
				1

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 FRACTIONS DECIMALS
 .005 .010 .015 .020 .030 .040 .050
 ± 1/64 .005 .005 .005 .005 .005 .005

TOLERANCE SW PER ANTI-CORROSION
 BREAK EXTERNAL EDGE
 P. 0.015 TO 0.030
 SOLDER THREADS PER
 DIA'S ON A COMB
 WASHED SURFACE

ANTCOM CORP. TORRANCE, CALIFORNIA
 367 VAN NESS WAY, SUITE 602
 TORRANCE, CA 90501
 TEL: (310) 782-1076
 FAX: (310) 782-1086
 WWW.ANTCOM.COM

REVISED: 02-15-03
 DESIGNED: S. HUYNH
 Feb-01-13
 DRAWN: P. TRAN
 Feb-01-13
 APPROVED: S. HUYNH
 Feb-01-13

SCALE 1/1 SHEET 1 OF 1

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