



FAA Approved Facility

# S-Band RHCP or LHCP Antennas, P/N: 2G25XX-X-MS-X

## 2.6" Diameter, Magnetic Mount Configuration



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

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: [antennas@antcom.com](mailto:antennas@antcom.com) . <http://www.antcom.com>

**NOTICE OF PROPRIETARY RIGHTS**  
THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA AND/OR TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR AGREEMENT THAT ITS USE IS LIMITED TO THE USES YOUR COMPANY ONLY AND DOES NOT INCLUDE REPRODUCTION OR PROGRAMING THEREOF. ANY OTHER USE IS EXPRESSLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

**REVISIONS**

ZONE REV	DESCRIPTION	DATE	APPROVED
1			

**ELECTRICAL:**

FREQUENCY:	(2483 - 2500) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP OR LHCP ( See P/N Below)
VSWR:	< 1.5:1
GAIN (dB):	4 ft G.P.      Free Space
@ 90° (Zenith):	+4.6      +5.1
@ 10° Elevation (Ave):	-1.1      -2.1
@ 20° Elevation (Ave):	+1.9      -0.3
@ 30° Elevation (Ave):	+2.6      +1.1
@ 45° Elevation (Ave):	+3.0      +2.6
@ 70° Elevation (Ave):	+4.0      +4.6
Beam Width (3dB):	139°      99°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

**LNA OPTION:**

LNA GAIN:	N/A	(35 +/- 1) dB
LNA NOISE FIGURE:	N/A	2.8 dB
LNA VOLTAGE:	N/A	(+2.5 to +30) Volts DC FROM Rx RF CON.
LNA DRAWING CURRENT:	N/A	< 38 mA
FILTER (REJ. @1616 MHz):		57 dB

**MECHANICAL:**

SIZE: DIAMETER = 2.60 in. [ 66.04 mm]  
HEIGHT = 0.742 in. [ 18.85 mm]

WEIGHT: 5.15 oz. (146 g)

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

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

CONNECTOR: SMA FEMALE CONNECTOR, (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)

MOUNTING: FLAT FIXED MOUNT; ADHESIVE GASKET & MOUNTING NUT PROVIDED

**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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

**CONFIGURATION:** POLARIZATION: LNA: CABLE'S LENGTH: CONNECTOR: COLOR:

1. 2.6" DIA. (FLAT) LL LEFT  
1.8" DIA. (P) SQ. (P)  
2. 5" DIA. (P) RR: RHCP  
3. 5" DIA. (P) RR: LHCP  
4. MINI ARNING (P) RR: RHCP  
53: (N) FLUX ROD  
56: (N) FLUX BLADE  
3D: (N) FLUX SHIELD

A1: WITH +34 dB LNA  
P: WITHOUT LNA

X: NO CABLE  
M: WITH MAG. MOUNT  
#: CABLE LENGTH (IN)  
R: RIGHT ANGLE CON.

S: SMA; P: PINS  
M: MCX; MM: MMCX  
N: N; NB: N-Bulkhead  
T: TNC; TB: TNC-Bulkhead

-1: GLOSS WHITE #17925 PER FED-STD-595B  
-2: LUSTERLESS GRAY #36320 PER FED-STD-595B  
-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B  
-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

**NOTES:** UNLESS OTHERWISE SPECIFIED: 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS (mm) 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

**P/N: 2G25XX-X-MS-1**

**REVISIONS**

ZONE REV	DESCRIPTION	DATE	APPROVED
1			

**ELECTRICAL:**

FREQUENCY:	(2483 - 2500) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP OR LHCP ( See P/N Below)
VSWR:	< 1.5:1
GAIN (dB):	4 ft G.P.      Free Space
@ 90° (Zenith):	+4.6      +5.1
@ 10° Elevation (Ave):	-1.1      -2.1
@ 20° Elevation (Ave):	+1.9      -0.3
@ 30° Elevation (Ave):	+2.6      +1.1
@ 45° Elevation (Ave):	+3.0      +2.6
@ 70° Elevation (Ave):	+4.0      +4.6
Beam Width (3dB):	139°      99°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

**LNA OPTION:**

LNA GAIN:	N/A	(35 +/- 1) dB
LNA NOISE FIGURE:	N/A	2.8 dB
LNA VOLTAGE:	N/A	(+2.5 to +30) Volts DC FROM Rx RF CON.
LNA DRAWING CURRENT:	N/A	< 38 mA
FILTER (REJ. @1616 MHz):		57 dB

**MECHANICAL:**

SIZE: DIAMETER = 2.60 in. [ 66.04 mm]  
HEIGHT = 0.742 in. [ 18.85 mm]

WEIGHT: 5.15 oz. (146 g)

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

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

CONNECTOR: SMA FEMALE CONNECTOR, (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)

MOUNTING: FLAT FIXED MOUNT; ADHESIVE GASKET & MOUNTING NUT PROVIDED

**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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
	MOUNTING SCREWS: 10-32, 3/4"	J507C1032R12	-	-	5
	ADHESIVE GASKET	12345G-3M-3G	-	-	3
-2	-1				1

**UNLESS OTHERWISE SPECIFIED**  
DIMENSIONS ARE IN INCHES  
FRACTIONS: DECIMALS: ANGLES  
± 1/64      .005      .005      ± 1°  
TOLERANCE .010 PER ANSI Y14.5  
REMOVE ALL BURRS  
BREAK SHARP EDGES .005 TO .015  
FLATTEN .005 TO .015  
SOAK IN DECAF PER MIL-STD-883B  
DAYS ON A CORROS. TEST  
MAGNETIC SURFACES: YES  
DO NOT SCALE DRAWING

**ANTCOM CORP.** TORRANCE CALIFORNIA

2.6" Dia. FLAT MAGNETIC MOUNT  
S-BAND CP ANTENNA

DESIGNED BY: S. HUYNH  
APPROVED: DEC-13-02

REV: D 3CVE1 2G25XX-X-MS-1  
SCALE 1/1  
SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas