



FAA Approved Facility

S-Band RHCP or LHCP Antenna, P/N: 1.5G25XX-X-XS-X

1.5" Square, Back Mount Configurations



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 . <http://www.antcom.com>

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OPTIONAL MOUNTING:
2-56 SCREWS, ADHESIVE GASKET, HYSOL, OR RTV

PASSIVE IRIIDIUM L-BAND ANTENNA
P/N: 615IR16RR-P-XS-4
S/N: 42961 WT: 1.5 oz.
Antcom Corporation
Torrance, CA, USA
Mfg. 11/20/05

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLES LENGTH :	CONNECTOR :	COLOR :
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCK; MM: MMCK	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
F: CABLE LENGTH (IN.)	N: NS; 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

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(2484 - 2499) MHz	
RADIATION PATTERN:	HEMISPHERICAL L	
POLARIZATION:	RHCP OR LHCP (See P/N Below)	
VSWR:	< 1.5:1	
GAIN (dB):	4 ft G.P.	3.5 in G.P.
@ 90° (Zenith):	+4.6	+5.7
@ 10° Elevation (Ave):	-1.1	-2.4
@ 20° Elevation (Ave):	+2.2	-0.1
@ 30° Elevation (Ave):	+2.2	+1.6
@ 45° Elevation (Ave):	+3.4	+3.0
@ 70° Elevation (Ave):	+4.4	+5.0
BEAM WIDTH (3dB):	129 °	98 °
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: LENGTH=1.54 in. [39.12 mm], WIDTH=1.54 in. [39.12 mm]
 HEIGHT= 0.427 in. [10.85 mm]

WEIGHT: 1.1 oz. (31.2 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: FEMALE SMA CONNECTOR
 (TNC, N, OTHER CONNECTOR, OR CABLE IS OPTIONAL)

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

SIZE :	FREQ. BAND :	POLARIZATION :	LNA :	FILTER :
1: 2" SQ.	1625: Tx/Rx	LL: LHCP	A1: WITH +23 dB LNA	
1.5: 1.5" SQ.	25: 2493 MHz		A2: WITH +43 dB LNA	
2: 2.8" DIA.	16: 1616 MHz		P: WITHOUT LNA	
3: 3.5" DIA.		RR: RHCP		
4: MINI ARINC				

ADHESIVE GASKET 12345Q-3M-1.2G

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REF. NO.
-2	-1					

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS TO DECIMALS AND ANGLES TO DEGREES
 ± 1/64 DEC. DIM. ± 1°
 DECIMALS TO FRACTIONS
 ± 0.0015 PER ASME Y14.5
 REMOVE ALL BURRS
 BREAK CHAMFER EDGES TO .015
 FINISH ALL SURFACES TO .0015
 DATE ON A CONFORMING DRAWING

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

1.5" SQ.
S-Band CP Antenna

DESIGNED BY: S. HUYNH
 AUG-27-03

APPROVED BY: S. HUYNH
 AUG-27-03

SCALE 1/1

SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas