



FAA Approved Facility

S-Band LHCP & Rx Globalstar Antenna, P/N: 1.5G25LL-P-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>

4x R.395 [R10.03]

2x 1.540 [39.12]

1.500 [38.10]

.427 [10.85]

.450 [11.43]

4x .593 [15.06]

.101 [2.58]

.142 [3.62]

MOUNTING:
4X 2-56 UNF-2A
X 0.155 Deep

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

PASSIVE IRIIDIUM
L-BAND ANTENNA
P/N: 6151R16RR-P-XS-4
S/N: 42961 WT: 1.5 oz.
Antcom Corporation
Torrance, CA USA
Mfg. 11/20/06

FEMALE SMA CONNECTOR
(PIN, TNC, N, OTHER CONNECTOR,
OR CABLE IS OPTIONAL)

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE 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
#: CABLE LENGTH (IN)	N: NIS; 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	SEE PART NO. BELOW
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	LHCP	
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)	

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 IRIDIUM PER MIL-C-5441

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, 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

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REV
-	-	-	-	-	-	5
-	ADHESIVE GASKET	12345G-3M-1,2G	-	-	-	3
-	-	-	-	-	-	1

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 FRACTIONS DECIMALS ANGLES
 ± 1/64 .005 .010 ± 1°
 TOLERANCE .010 PER ANSI Y14.5
 REMOVE ALL BURRS
 BREAK EXTERNAL EDGES .060 TO .010
 CALLER'S FIG. 15.9
 DATE ON A COMMON & 27/000
 MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

1.5" SQ.
S-Band LHCP Antenna

DESIGNED: S. HLY/YNH
 ENGINEER: Aug-27-03
 APPROVED: S. HLY/YNH
 DATE FILED: Aug-27-03

DRAWING NO: 3CVE1
 PART NO: 1.5G25LL-P-XS-X
 SCALE: 1/1
 SHEET 1 OF 1