



FAA Approved Facility

# S-Band LHCP & Rx Globalstar Antennas, P/N: 1.5G25LL-P-XX-X

## 1.5" Square, Back Mount Configurations with Cable



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>

2x 1.540 [39.12]

4x R.395 [R10.03]

1.500 [38.10]

.368 [9.35]

.201 [5.09]

4X .593 [15.06]

4X .593 [15.06]

4X .593 [15.06]

36" CABLE WITH FEMALE SMA CONNECTOR R (OPTIONAL: MCX, MMCX, TNC, N, OR OTHER CONNECTOR)

MOUNTING: 4X 2-56 UNF-2A X 0.118 Deep

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

36" CABLE WITH FEMALE SMA CONNECTOR R (OPTIONAL: MCX, MMCX, TNC, N, OR OTHER CONNECTOR)

P/N: 1.5G25LL-P-36S-X

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

SIZE :	FREQ. BAND :	POLARIZATION :	LNA :	FILTER :
1: 2" SQ.	1625-1700 MHz	LL: TX: LHCP, RX: LHC P		
1.5: 1.5" SQ.	1625-1700 MHz	LL: TX: LHCP, RX: LHC P		
2: 2.0" DIA.	1625-1700 MHz	LL: TX: LHCP, RX: LHC P	P: WITHOUT LNA	
3: 3.0" DIA.	1625-1700 MHz	RR: TX: RHCP, RX: RHC P		

### SPECIFICATIONS

**ELECTRICAL:**

FREQUENCY:	(2484 - 2499) MHz	SEE PART NO. BELOW
RADIATION PATTERN:	HEMISPHERICAL L	
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= 0.368 in. [9.35 mm]

WEIGHT: 1.1 oz. (31.2 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL  
 BASE IRIDITE 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 WITH 36" CABLE  
 (OPTIONAL: MCX, MMCX, TNC, N, OR OTHER CONNECTOR)

**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	REF
5						
3	ADHESIVE GASKET	12345G-3M-1.2G				
1						

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
 DECIMALS: .005  
 FRACTIONS: 1/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8  
 TOLERANCE .010 PER ASH T14.9  
 BEING ALL SURFACES  
 BEING EXTERNAL EDGES .010 TO .015  
 BEING INTERNAL EDGES .010 TO .015  
 DATE ON A CASH ON 8/27/03  
 MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

1.5" SQ. FLAT MOUNT S-Band LHCP Antenna (With 36" CABLE)

DESIGNED BY: S. HUYTH  
 DRAWN BY: S. HUYTH  
 APPROVED BY: S. HUYTH  
 DATE: AUG-27-03

SCALE 1/1

SHEET 1 OF 1