L-Band LHCP & Tx Globalstar Antenna, P/N: 1.5G16LL-P-XS-X
1.5" Square, Back Mount Configurations

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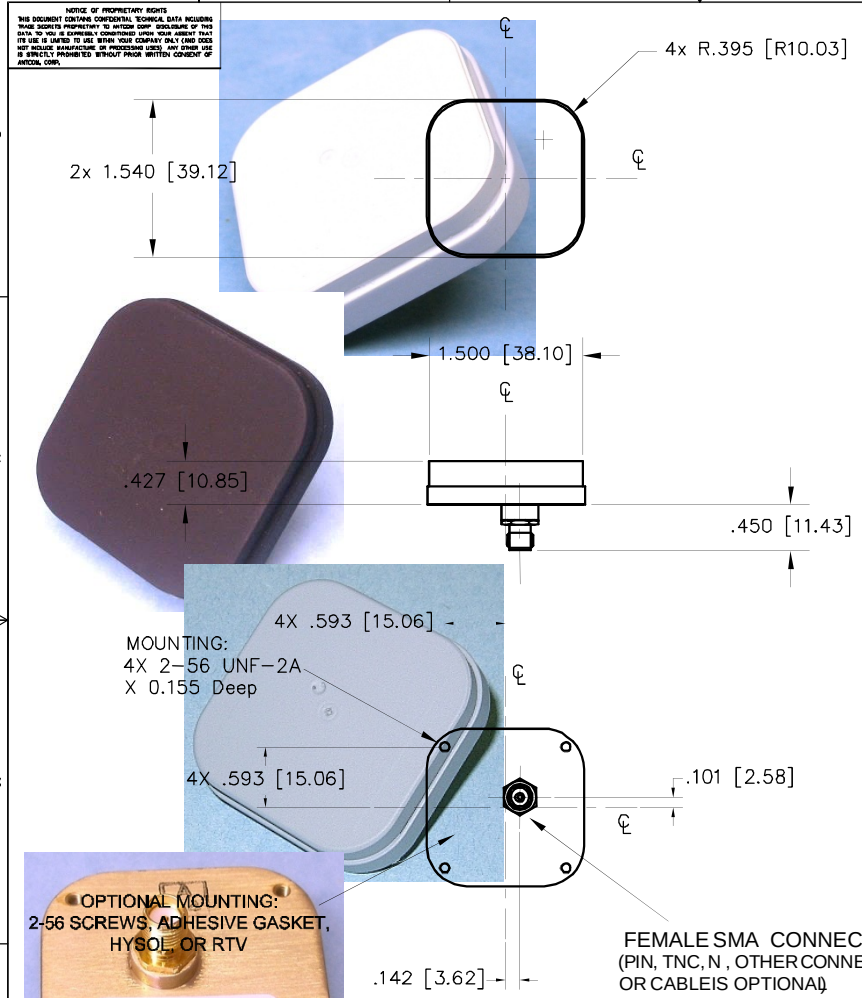

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
NOTES: UNLESS OTHERWISE SPECIFIED:

SIZE:	FREQ. BAND:	POLARIZATION:	LNA:	FILTER:
1: 2" SQ.	1625: Tx/Rx	LL: TX: LHCP, RX: LHCP	A1: WITH +23 dB LNA	
1.5: 1.5" SQ.	25: 2493 MHz	LR: TX: LHCP, RX: RHCP	A2: WITH +43 dB LNA	
2: 2.6" DIA.	16: 1616 MHz	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	
3: 3.5" DIA.		RR: TX: RHCP, RX: RHCP		
4: MINI ARINC				

P/N: 1.5G16LL-P-XS-X

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

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(1610.0 - 1626.5) MHz		SEE PART NO. BELOW
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	LHCP		
VSWR:	< 1.5:1		
GAIN (dB):	4 ft G.P.	2.6 in G.P.	
@ 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)		

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
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 :	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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

-2	-1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
	-			-	-	-	5
	-	ADHESIVE GASKET	12345G-3M-1.2G	-	-	-	3
				-			
	-			-	-	-	1

QUANTITY REQD — PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS ± 1/64, DECIMALS .XX± .015, .XXX± .005, ANGLES ± 1°. TOLERANCE SYM PER ANSI Y14.5. REMOVE ALL BURRS. BREAK EXTERNAL EDGES .005 TO .015. FILLETS R .030 TO R .032. SCREW THREADS PER MIL-S-8879. DATA ON A COMMON ∠ OF 005. MACHINED SURFACES 125. DO NOT SCALE DRAWING.

DRAWN | CHECKED | ENGINEER | APPROVED S. HUYNH Aug-27-03 | CAD FILE NO

ANTCOM CORP. TORRANCE CALIFORNIA

1.5" SQ.
TX GLOBALSTAR ANTENNA

SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	1.5G16LL-P-XS-X	-

SCALE 1/1 SHEET 1 OF 1

Antenna Mounts/Adapters: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf
NMO Connector Option is Now Available for Some Antennas