



FAA Approved Facility

Thuraya & Tx Globalstar Antennas, P/N: 5BG16LL-P-XX-X

4.6" Tall Blade Configurations



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Dimensions: 1.750 [44.45], 5.250 [133.35], 4.625 [117.48], 1.24 [31.60], 0.57 [14.53] (TNC), 0.72 [18.29] (N, N-Bulkhead), 0.46 [11.68] (SMA), 0.83 [21.00] (TNC-Bulkhead), 0.98 [24.89], 1.80 [45.72], 2x3.60 [91.44]

4X ϕ .20 [ϕ 5.11]
 \checkmark ϕ .385 [ϕ 9.78] X 100°

DATE STAMP
O-RING GROOVE
MS28775-024

SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	1542.50 ±17.5	1642.50 ±17.5	1609.00 ±7.0	1621.00 ±5.0
GAIN (dBic) on 4t G.P.	Rx Thuraya	Tx Thuraya		Tx Globalstar
@ 90° (Zenith):	+1.5	0.0	+2.9	+1.9
@ 10° Elevation:	-1.3	-1.0	+0.2	0.0
@ 20° Elevation:	+1.0	+1.2	+2.4	+0.9
@ 30° Elevation:	+1.0	+0.4	+2.1	+1.6
@ 45° Elevation:	+0.6	-0.8	+1.0	+2.0
@ 70° Elevation:	+0.4	0.0	+1.1	+2.0
BEAM WIDTH (3dB)	155 Deg.	162 Deg.	162 Deg.	170 Deg.
AXIAL RATIO (dB)	1 to 3	1 to 7	1 to 6	1 to 6
RADIATION PATTERN:	HEMISPHERICAL			
POLARIZATION:	LHCP			
VSWR:	< 1.5:1			
DC GROUNDING:	YES (LIGHTNING PROTECTION)			

MECHANICAL:

SIZE: LENGTH= 5.25 in.[133.35mm], WIDTH= 1.75 in.[44.45mm]
HEIGHT = 4.630 in. [117.48 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: FEMALE TNC CONNECTOR
(SMA, TNC, N, BULKHEAD, & OTHER CONNECTOR, CABLE)

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	FINISH	REQ
4	MOUNTING SCREWS (10-32, 3/4")	MS24693C274		2
1	O-RING	MS28775-024		1

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS SHALL BE IN 16ths
± 1/64 DECIMALS ± .005 ANGLES ± 1°
TOLERANCE SURF PER ANSI Y14.5
REMOVE ALL BURRS
BREAK LATERAL EDGES .060 TO .015
FILLET R. .030 TO .015
SCREW THREADS PER ANSI B1.13-2003
DATE ON A COLUMN BY DATE
MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

AIRBORNE, THURAYA / TX GLOBALSTAR
HELIX BLADE ANTENNA

SCALE 1/1 SHEET 1 OF 1

NOTES: UNLESS OTHERWISE SPECIFIED:
DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

P/N: 5BG16LL-P-XT-1

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