



FAA Approved Facility

GPS/RHCP-Inmarsat/Iridium Antenna, P/N: S5BRxTxIN-P-XT-1 or LHCP-Thuraya Antenna, P/N: S5BRxTxT-P-XT-1 4.6" Tall Blade, Top Mount, Bottom Connector Configurations

Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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

1.750 [44.45]

5.250 [133.35]

1.24 [31.60]

4.625 [117.48]

0.57" [14.53] (TNC), 0.72" [18.29] (N, N-Bulkhead)
0.46" [11.68] (SMA), 0.83" [21.00] (TNC-Bulkhead)

DATE STAMP

0.98 [24.89]

1.80 [45.72]

2x3.60 [91.44]

O-RING GROOVE
MS28775-024

SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	(1575.42 ±15)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1616)	(1610-1626)	(1227.60 ±15)
GAIN (dBic) on 4ft GP	L1 GPS	Rx INMARSAT	Tx INMARSAT	GLONASS	IRIDIUM	L2 GPS
@ 90° (Zenith):	+2.5	-0.7	+2.5	+3.7	+3.3	-5.0
@ 10° Elevation:	-1.7	-4.6	-1.0	0.0	0.0	-6.5 to -11.5
@ 20° Elevation:	0.6	-2.2	1.1	2.0	2.0	-6.2 to -9.2
@ 30° Elevation:	0.3	-2.0	0.2	1.1	1.2	-5.7 to -7.7
@ 45° Elevation:	-1.2	-3.2	-1.9	-0.6	-0.8	-4.6 to -6.0
@ 70° Elevation:	0.5	-2.6	1.1	2.1	2.1	-4.0
BEAM WIDTH (3dB)	160 Deg.	160 Deg.	164 Deg.	160 Deg.	164 Deg.	(107 to 170) Deg.
AXIAL RATIO (dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 5
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 1.5:1					
DC GROUNDING:	YES (LIGHTNING PROTECTION)					

MECHANICAL:

SIZE: LENGTH = 5.25 in. [133.35 mm], WIDTH = 1.75 in. [44.45 mm]
HEIGHT = 4.630 in. [117.48 mm]

WEIGHT: 5.15 oz. (146 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDIUM 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

QUANTITY	DESCRIPTION	PART NO	FINISH	NEW
4	MOUNTING SCREWS (10-32, 3/4")	MS24693C274		2
1	O-RING	MS28775-024	-	1

CONFIGURATION:	POLARIZATION:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	LL: TX: LHCP, RX: LHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA; P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	LR: TX: LHCP, RX: RHCP		M: WITH MAG. MOUNT	M: MMCX; MM: MMCX	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)	RxTxIN: RHCP INMARSAT				
53: (HELIX ROD)	RxTxT: LHCP THURAYA				
5B: (HELIX BLADE)					
5D: (HELIX HANDHELD)					

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/64 ± .015 ± .005 ± 1°

REMOVE ALL BURRS
BREAK SHARP EDGES .005 TO .015
FILED'S TO .005 TO .010
SCREW HEADS PER MIL-S-8879
DAYS ON A COMMON LOT OF 1000
MACHINED SURFACES 10°

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

AIRBORNE,
IRIDIUM/GPS/GLONASS/INMARSAT
BLADE ANTENNA

DATE: 05-14-12
DRAWN: Ph3 Tran
CHECKED: S. HUYNH
APPROVED: S. HUYNH

SCALE: 1/1

SHEET: 1 OF 1

NMO Connector is Now Available for Some Antennas