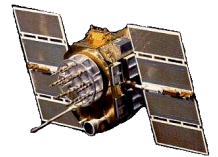




ISO 9001:2008/FAA Approved Facility

Iridium/Inmarsat/Glonass/L1 GPS Antennas, P/N: 3D16X-XS-X-3
 Iridium/Inmarsat/Glonass/L1/L2 GPS Antennas, P/N: 3D1216X-XS-X-3
 Rx Only Thuraya Antenna, P/N: 3DRxTX-XS-X-3
 Rx Only Inmarsat/Iridium Antenna, P/N: 3DRxINX-XS-X-3
 Rx/Tx Thuraya Antenna, P/N: 3DRxTxTX-XS-X-3
 Rx/Tx Inmarsat/Iridium Antenna, P/N: 3DRxTxINX-XS-X-3
 1" Dia. x 4.2" Tall, Threaded Bottom Mount Configuration



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ELECTRICAL:		SPECIFICATIONS						
		REVISIONS						
		ZONE	REV	DESCRIPTION	DATE	APPROVED		
FREQUENCY (MHz):	(1575.42 ±13)(1542.50 ±17.5)(1642.50 ±17.5)(1602-1616)(1616-1626)(1227.60 ±13)(1252.50 ±7.5)/(1176.45 ±12)							
GAIN (dBic)	L1 GPS Rx INMARSAT Tx INMARSAT GLONASS IRIDIUM L2 GPS L2 GLONASS/L5 GPS							
@ 90° (Zenith):	+2.9 +0.7 -1.6 +0.3 -1.2 0.0 -1.0							
@ 10° Elevation:	-0.4 -2.8 -4.9 -3.1 -4.3 -2.4 to -6.3 -3.4 to -7.3							
@ 20° Elevation:	+0.5 -1.7 -3.5 -1.7 -3.0 -1.8 to -4.8 -2.8 to -5.8							
@ 30° Elevation:	+1.7 -0.7 -2.4 -0.7 -1.9 -1.3 to -3.4 -2.3 to -4.4							
@ 45° Elevation:	+2.4 +0.2 -2.3 -0.1 -1.8 -0.5 to -1.5 -1.5 to -2.5							
@ 70° Elevation:	+2.3 +0.6 -2.1 +0.2 -1.6 0.0 to -0.5 -1.0 to -1.5							
BEAM WIDTH (3dB)	142 Deg. 140 Deg. 146 Deg. 144 Deg. 145 Deg. (120 to 165) Deg. (120 to 165) Deg.							
AXIAL RATIO (dB)	1 to 3 1 to 4 1 to 3 1 to 4 1 to 3 1 to 5 1 to 5							
RADIATION PATTERN:	HEMISPHERICAL							
POLARIZATION:	RHCP							
VSWR:	< 1.5:1							
LIGHTNING PROTECTION:	D.C GROUNDING							

LNA OPTION:

LNA GAIN: (22.0+-2.0) dB
 LNA NOISE FIGURE: 2.0 dB
 LNA P 1dB Out: +13 dBm
 VOLTAGE/CURRENT: (+2.4 TO +5) Volts DC / (15 TO 30) mA

MECHANICAL:

SIZE: DIAMETER: 1.00 in. [25.40 mm]
 HEIGHT: 4.2 in. [106.67 mm]
 WEIGHT: 1.25 oz (35.3 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441F
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: SMA FEMALE
 (OPTION: SMA Bulkhead, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, QMA, or Cable)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: > 30 G's
 LEAKAGE: HERMETICALLY SEALED

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

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

CONFIGURATION:	FREQUENCY:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SO. (FLAT)	1216: L1/L2/Inmarsat	A2: WITH LNA	X: NO CABLE	S: SMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.8: 1.8" SO. (FLAT)	1215: L1/L2	P: WITHOUT LNA	#: CABLE LENGTH (IN)	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.0" DIA. (FLAT)	15: L1	R: RIGHT ANGLE CON.	N: N; NB: N-Bulkhead	T: TNC; TB: TNC-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP				-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINIMARINE (FLAT)					-5: TAN #33446 PER FED-STD-595B
5: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: 3D1216X-XS-X-3

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
1					1
1					1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE ANGLES ± 1/64 ± 1'

FRACIONS OVER ALL SURFACES BREAK EXTERNAL EDGES .005 TO .015 FILED & CHAMFERED TO R .050 SMOOTH SURFACES PER MIL-S-8879 MACHINED SURFACES PER MIL-S-8879

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

0.5-28 Threaded Base Helix GPS/INMARSAT/GLONASS/IRIDIUM ANTENNA

DATE: JUN 04 2016
 TIME: 10:10 AM
 USER: S. HUYNH
 PART: 3D1216X-XS-X-3
 SCALE: 1/1
 SHEET: 1 OF 1

NMO Connector Option is Now Available for Some Antennas