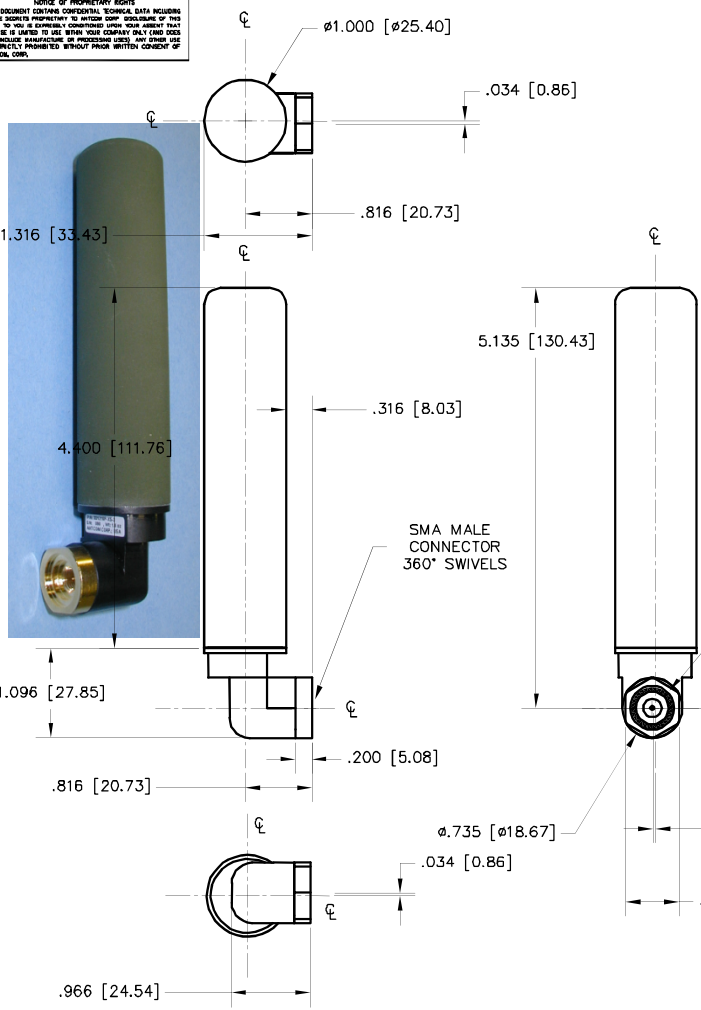
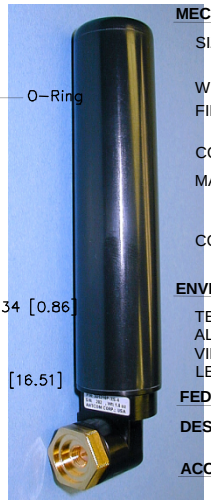
Thuraya & Tx Globalstar Antennas, P/N: 3D16LL-P-XS-X
1" Diameter x 4.2" Tall, Swivel, Side Mount Configurations

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com

NOTICE OF PROPRIETARY RIGHTS
THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY (AND DOES NOT INCLUDE MANUFACTURE OR PROCESSING USES). ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM, CORP.





SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):		(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1616)	(1616-1626)	
GAIN (dBic)		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:		< 2.0:1				

DC GROUNDING: YES (LIGHTNING PROTECTION)

LNA OPTION:

LNA GAIN:	(22.0+/-2.0) dB
LNA NOISE FIGURE:	2.8 dB (Filter loss is Included)
LNA P 1dB Out:	+13 dBm
VOLTAGE/CURRENT:	(+2.4 TO +5) Volts DC / (15 TO 30) mA
REJECTION:	2 2-POLE FILTERS FOR EACH BAND

MECHANICAL:

SIZE:	DIAMETER: 1.00 in.[25.40 mm] HEIGHT: 4.4 in. [111.76 mm]
WEIGHT:	3.3 oz (93.55 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
COLOR:	OLIVE DRAB GREEN #34031 PER FED-STD-595B
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR:	SMA MALE CONNECTOR, 360° SWIVELS (OPTION: MCX, SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, 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:	POLARIZATION:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	LL: LHCP	A1: WITH LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	RR: RHCP		M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	V: VERTICAL	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)			R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)					
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

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

P/N: 3D16LL-P-XS-3

QUANTITY REQD		DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
	1	O-Ring	AS568A-12 (McMaster P/N: 94115K012)			
1	1	5in SMA Bulkhead Jack to MMCX Right Angle Plug RF Cable	RG316-MMCX-RM-5.00-SMA-F-B	–	–	1
-2	-1	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. DATE ON A COMMON ∠ OF 005. MACHINED SURFACES 125. DO NOT SCALE DRAWING.

DRAWN | CHECKED | ENGINEER | APPROVED S. HUYNH Jan-24-04 | CAD FILE NO

ANTCOM CORP. TORRANCE CALIFORNIA

HANDHELD HELIX
THURAYA & TX GLOBALSTAR
ANTENNA

SIZE D | CAGE NO 3CVE1 | DRAWING NO 3D16LL-P-XS-3 | REV –

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