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TECHNOLOGY GROUP

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Full-service, independent repair center
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L1/L2 GPS/L-Band (1-2 GHz) Helix Antenna, P/N: 18x2.5H1215R-P-XN-1-J

500 watts, Low side/Back Lobes for Jamming Applications

2.5” Diameter x 18” Tall, Back Mount Configuration, with N, SMA, TNC, or BNC Connector Options



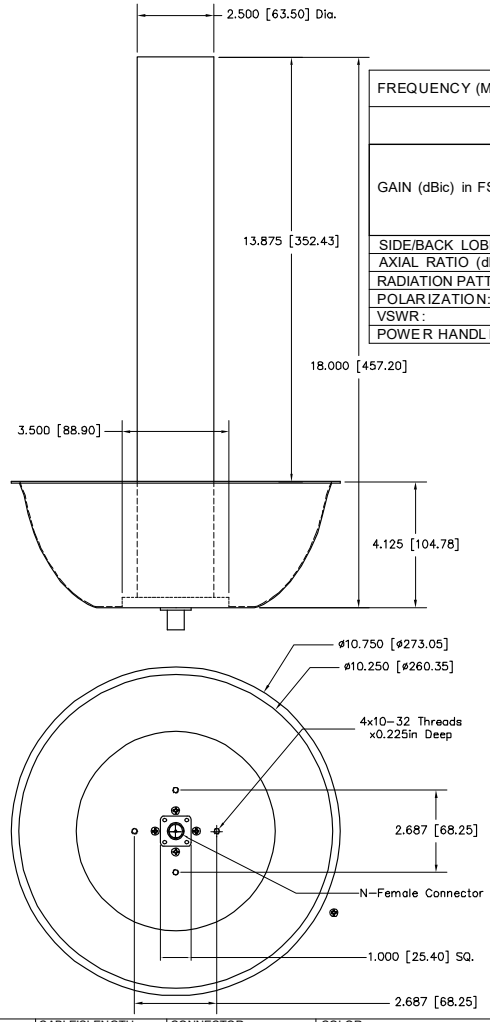
Antenna Mounts/Adapters: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf

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SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	L5 GPS E5, E5a, E5b, Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo B3 Compass	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
	1176.45 ± 12.0 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15.0 MHz	1227.60 ± 12.0 MHz 1207.14 ± 10.0 MHz	1252.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10.0 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10.0 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	1609.0 ± 7.0 MHz
GAIN (dBic) in FS	> + 10.5 dBic					
SIDE/BACK LOBES:	< -20 dB					
AXIAL RATIO (dB)	1 to 2					
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 1.7 : 1					
POWER HANDLING	500 watts					

MECHANICAL:

SIZE:	TOP DIA: = 2.50 in [63.50 mm], BASE DIA = 3.50 in [88.90 mm] HEIGHT= 18 in. [457 mm]
WEIGHT:	33.5 oz. (950 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F TYPE II CLASS 1A
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:	N-Female (OPTION: TNC, SMA, N-Bulkhead, BNC)

ENVIRONMENTAL:

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

FEDERAL & MILITARY SPECIFICATIONS

DESIGNTO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541F, MIL-E-5400, MIL-I-45208A, MIL-STD-810 AND SAE J1455

HIGH (in):	POLARIZATION:	LNA:	CABLE'S LENGTH	CONNECTOR	COLOR
	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
	LR: TX: LHCP, RX: RHCP		M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	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
	RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	R: RHCP				
	L: LHCP				

P/N: 18x2.5H1215R-P-XN-1-J

ITEM NO	PART NO	DESCRIPTION	QUANTITY REQD
5	MS51958–59	MOUNTING SCREW: (10–32 Pan Head Phillips, 1/4")	8
4	MTR–2–mod	Pipe Mount (Item 482m, without Thread insert)	1
3			1
2			1
1			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 .005 TO R .020
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON Ø .005
MACHINED SURFACES 125

DRAWN
CHECKED
ENGINEER
APPROVED S. HUYNH DEC-07-09
CAD FILE NO
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

HIGH GAIN IRIDIUM/GPS/GLONASS/ INMARSAT HELIX ANTENNA

SIZE D | CAGE NO 3CVE1 | DRAWING NO 18x2.5H1215R–P–XN–1–J | REV

SCALE 1/1 SHEET 1 OF 1

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

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