



FAA Approved Facility

7in Dia. Choke Ring GNSS Antenna for Global Navigation Satellite Systems (GNSS) Applications

P/N: 72GNSSA-XX-X-NR (Survey Mount)

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



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>

“-HF” for High Iridium/Inmarsat/Thuraya-Rejection Front End Filter Option: **-22dB**@1616MHz, **-34dB**@(1625-1660)MHz
“-HFO” for Additional Omnistar Rejection: **-27dB**@1545MHz

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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 THE USE IS LIMITED TO THE USE WITH YOUR COMPANY ONLY AND DOES NOT INCLUDE MANUFACTURE OR PROCESSING OF ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.												REVISIONS																																																								
SPECIFICATIONS												ZONE	REV	DESCRIPTION	DATE	APPROVED																																																				
ELECTRICAL:																																																																				
		L5 GPS E5, E5a, E5b, Galileo L5 IRNSS		L2 GPS B2 Compass		L2 GLONASS E0 Galileo B3 Compass		Omnistar / L-Band L6 Galileo B1 Compass		L1 GPS E1, E2 Galileo L1 IRNSS		L1 GLONASS																																																								
FREQUENCY:		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																																																								
RADIATION PATTERN:		RHCP		RHCP		RHCP		RHCP		RHCP		RHCP																																																								
POLARIZATION:		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1																																																								
VSWR:		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1																																																								
IMPEDANCE:		50 ohms		50 ohms		50 ohms		50 ohms		50 ohms		50 ohms																																																								
ANTENNA GAIN (dBic):		Free Space 4 ft G.P.		Free Space 4 ft G.P.		Free Space 4 ft G.P.		Free Space 4 ft G.P.		Free Space 4 ft G.P.		Free Space 4 ft G.P.																																																								
@ 90° Elevation:		-1.3 +2.4 +5.5 +6.6 +5.0 +2.3 +3.1 -2.5 +4.4 +3.5 +1.5 -2.1		-12.1 -4.5 -4.5 -3.6 -5.0 -5.4 -8.1 -7.1 -6.8 -1.2 -9.9 -7.7		-10.9 -1.6 -3.1 -0.4 -3.8 -1.9 -6.0 -4.0 -4.6 +1.6 -7.7 -4.9		@ 20° Elevation:		-9.1 +0.1 -1.4 +1.5 -2.0 -0.1 -3.9 -2.8 -2.7 +2.1 -5.8 -4.5		@ 30° Elevation:		> -3.3 > 0.7 > +3.6 > 0.6 > +3.1 > 0.1 > +1.1 > +5.0 > +2.5 > +1.5 > -0.5 > -8.8																																																						
BEAM WIDTH (3dB):		80 Deg. 128 Deg.		84 Deg. 130 Deg.		82 Deg. 120 Deg.		78 Deg. 125 Deg.		80 Deg. 135 Deg.		80 Deg. 130 Deg.																																																								
AXIAL RATIO:		0.5 dB		0.5 dB		1.5 dB		1.0 dB		5.0 dB		5.0 dB																																																								
LIGHTNING PROTECTION:		35 dB		35 dB		35 dB		33 dB		33 dB		33 dB																																																								
LNA GAIN:		3.0 dB		3.0 dB		3.0 dB		3.0 dB		3.0 dB		3.0 dB																																																								
LNA NOISE FIGURE:		+13 dBm		+13 dBm		+13 dBm		+13 dBm		+13 dBm		+13 dBm																																																								
LNA P1dB Out:		2.5V/20mA, 3V/23mA, 3.3V/35mA, (2.5-24V)/<50mA																																																																		
POWER HANDLING:		1 Watt CW, Optional 10 Watts 1 Microsec Pulse (-AL)																																																																		
MECHANICAL:																																																																				
SIZE:		DIAMETER: 7.01 in. [178 mm]		HEIGHT: 3.23 in. [81.98 mm]		WEIGHT: 1.37 lbs. (620 g)		FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441		MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE		CONNECTOR: TNC FEMALE CONNECTOR (OPTION: SMA, BNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)																																																								
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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455																																																								
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