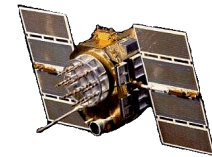




Active L1 GPS Antenna, P/N: 3CG15AL-XMM-4-4.015 (MMCX Connector)
 Active L1/L2 GPS Antenna, P/N: 3CG1215AL-XMM-4-4.015 (MMCX Connector)



(3.335in x 3.500in x 0.642in), 4.015in Conformal Radius Configuration
 2 Channels of Separate L1 and L2 or 2x L1/L2 Ports are Available in This and Other Configurations

ISO 9001:2008/FAA Approved Facility 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>

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3.335 [84.71]
 $\phi .177 \pm .005$ [$\phi 4.50 \pm 0.13$]
 $\phi .350$ [$\phi 8.89$] X 100'
 TO BOTTOM SURFACE

3X 1.500 [38.10]
 3X 1.500 [38.10]
 3.500 [88.90]

R4.151 [R105.44]
 R4.015 [R101.98]

.642 [16.30]
 MMCX FEMALE CONNECTOR
 (OPTION: SMA, TNC, N, MCX, or CABLE)

2.059 [52.29]

R.780 [R19.81]
 .295 [7.50]
 2.078 [52.78]
 3X 2.862

SPECIFICATIONS

ZONE	REVISIONS			
	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

	L1: (1575.42 ±15) MHz		L2: (1227.60 ±15) MHz	
	FREQUENCY:			
RADIATION PATTERN:	HEMISPHERICAL		HEMISPHERICAL	
POLARIZATION:	RHCP		RHCP	
VSWR:	< 1.5:1		< 1.5:1	
IMPEDANCE:	50 ohms		50 ohms	
ANTENNA GAIN (dBic):	Free Space	24 in Dia. Tube, 2 ft Long	Free Space	24 in Dia. Tube, 2 ft Long
@ 90° (ZENITH):	+ 4.5	+ 4.2	+ 2.5	+ 4.6
@ 10° Elevation:	- 1.5	- 3.0	- 4.3	- 2.1
@ 20° Elevation:	0.0	- 0.9	- 3.0	- 0.9
@ 30° Elevation:	+ 1.1	+ 1.1	- 1.5	+ 0.4
@ 60 - 90° Elevation:	> 3.0	> 2.8	> 1.7	> 3.1
BEAM WIDTH (3dB):	112 Deg.	120 Deg.	104 Deg.	102 Deg.
AXIAL RATIO:	2 dB		2 dB	
LIGHTNING PROTECTION:	DC GROUNDING			
POWER HANDLING:	200 Watt CW			

MECHANICAL:

SIZE: 3.50 in. [88.90 mm] x 3.335 in. [84.81 mm]
 HEIGHT = 0.642 in. [16.30 mm]

WEIGHT: <5.5 oz. (160 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, AND FIRE RETARDANT

CONNECTOR: MMCX FEMALE CONNECTOR
 (OPTION: SMA, TNC, N, MCX, or 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, D0-228, MIL-C-5541,
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

P/N: 3CG15AL-XMM-4-4.015

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215: L1/L2	A: WITH LNA
1.9: 1.9" SQ.	15: L1 ONLY	P: WITHOUT LNA
3: 3.5" SQ.		AL: WITH LNA/LIMITER/FILTER (INPUT: +50dBm, OUPUT:+30 dBm)
2: 2.6" DIA		PL: PASSIVE WITH LIMITER/FILTER (INPUT: +50dBm, OUPUT:+30 dBm)
4: MINI BRINC		

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG; N: NO MAG.	M: MMCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
L: CABLE LENGTH (IN)	N: NB; N: N; NB: Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: DESERT TAN #33446 PER FED-STD-595B

1	1	-	-	-	1
QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	FINISH	NEW

ANTCOM CORP. TORRANCE, CALIFORNIA

L1/L2 GPS ANTENNA

DATE: 01-06-15
 DRAWN: S. HUYNH
 CHECKED: P. TRANT
 APPROVED: S. HUYNH

SCALE: 1/1
 SHEET: 1 OF 1