



UHF-SATCOM Antenna, P/N: 1RUG0203PP-XS-1 (8.0 x 11.5 x 1.8) in, Top Mount Flat Configuration



ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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

SPECIFICATIONS

ZONE	REV	REVISIONS		
		DESCRIPTION	DATE	APPROVED
		ELECTRICAL:		
		UHF		
FREQUENCY:		Rx:(243-270) MHz Tx:(290-318) MHz	GPS (Optional)	
RADIATION PATTERN:		HEMISPHERICAL		
POLARIZATION:		RHCP		
VSWR:		< 1.5:1		
IMPEDANCE:		50 ohms		
ANTENNA GAIN (dBic):		4 ft G.P.	Free Space	4 ft G.P.
@ 90 ° (ZENITH):		+ 5.0	+ 5.4	+ 4.1
@ 10 ° Elevation:			- 1.6	- 1.7
@ 20 ° Elevation:			0.0	+ 0.9
@ 30 ° Elevation:			+ 1.3	+ 2.0
@ 60 - 90 ° Elevation:			> 4.2	> 2.5
BEAM WIDTH (3dB):		102 Deg.	145 Deg.	93 Deg.
AXIAL RATIO:		2 dB		
LNA GAIN:		33 dB		
LNA NOISE FIGURE:		3.0 dB		
LNA P1dB Out:		+13 dBm		
LNA DC POWER:		2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA		
REJ. @ (-50/+50) MHz:		-41 dB / -59 dB		
@ (-100/+100) MHz:		< -65 dB		
LIGHTNING PRO.:		DC GROUNDING		
POWER HANDLING:		200 Watt CW		

MECHANICAL:

SIZE: WIDTH: 8in, LENGTH: 11.5in
HEIGHT: 1.410 in [35.81mm]

WEIGHT: 9.07 Lbs. (4 Kg)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: TNC FEMALE
(OPTION: SMA, N, 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

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	REV
1	0-Ring (P/N: 2-031/N756-75)		2-031/N756-75 (94115K031), Item 550	2
10	MOUNTING SCREWS: 10- 32, 1.25"		MS24693-C278	1

CONFORMALITY:	HIGH (INCHES):	SHAPE:	FREQ. BAND:	UHF/GPS AMP:
CC: CONFORMAL/CURVED		C: CIRCULAR	1215, L1/L2	PP: UHF/GPS ARE PASSIVE
CF: CONFORMAL FLAT		S: SQUARE	1S: L1 ONLY	PA: UHF IS PASSIVE, GPS IS ACTIVE
NF: NOT CONFORMAL FLAT		R: RECTANGULAR	0215: L1/L2	
NC: NOT CONFORMAL/CURVED		B: BLADE	GPS/UHF	
		BW: BLADE/WHIP	0203: UHF only	

P/N: 1RUG0203PP-XS-1

NUMBER OF ELEMENT:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA: P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B	
TM: MAG, N: NO MAG	N: MCX: MIL: MMCX	-2: LUSTERLESS GRAY #38320 PER FED-STD-595B	
P: CABLE LENGTH (IN)	N: NB: N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B	
R: RIGHT ANGLE CON.	T: TNC: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS SHALL BE IN DECIMALS

± 1/64 0.0015 0.0015 ± 1°

TOLEANCE 5M PER ANIS 1145

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .005 TO .015

DRILL & TAP TO 500

SEEN THREADS FOR ALL 3-8879

DATE 01/05/03

WASHED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

FLAT UHF-SATCOM ANTENNA

DATE: 3CVE1
REV: 1RUG0203PP-XS-1

SCALE: 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas

CC: 3CVE1, NAICS: 334511, S.Huynh, 4/13/2016 <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf> (Amplifiers, Power Divider/Combiner, Filters, Diplexer) 93 of 107