



FAA Approved Facility

Dual Passive RHCP C2V2 (2.028-2.203)GHz / LHCP TDRSS (2.106-2.287)GHz Antenna

P/N: 2G2.028-2.287RL-PP-XSS-1-S

Other Frequencies, Polarizations, Connectors and Color Options are Available

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



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Top View: $\phi 2.630$ [$\phi 66.80$]

Side View: Height = .988 [25.10]

Bottom View: 2X .249 [6.32], 1.250 [31.75] SQ., 1.630 [41.41] SQ., 4x 6-32 UNC .250 Deep Equally Spaced on 1.153 Rad., 4x 4-40 UNC .250 Deep Equally Spaced on .884 Rad., 2X .452 [11.48]

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	C2V2 (2.028-2.203) GHz		TDRSS (2.106-2.287) GHz	
	HEMISPHERICAL			
RADIATION PATTERN:	RHCP			
POLARIZATION:	RHCP		LHCP	
VSWR:	< 1.5:1			
GAIN (dB):	4 ft G.P.	Free Space	4 ft G.P.	Free Space
@ 90° (Zenith):	+4,6	+6,1	+4,6	+6,1
@ 10° Elevation (Ave):	-1,1	-2,4	-1,1	-2,4
@ 20° Elevation (Ave):	+2,2	-0,3	+2,2	-0,3
@ 30° Elevation (Ave):	+2,2	+1,0	+2,2	+1,0
@ 45° Elevation (Ave):	+3,4	+2,9	+3,4	+2,9
@ 70° Elevation (Ave):	+4,4	+5,3	+4,4	+5,3
Beam Width (3dB):	110 Deg.	88 Deg.	110 Deg.	88 Deg.
AXIAL RATIO @ Zenith:	2.0 dB			
IMPEDANCE:	50 Ohms			
POWER HANDLING:	200 Watt			
DC GROUNDING:	YES (LIGHTNING PROTECTION)			

MECHANICAL:

SIZE: DIAMETER = 2.63 in.[66.80 mm]
HEIGHT = 0.988 in. [25.10 mm]

WEIGHT: 5.15 oz. (.146 Kg)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441F

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

CONNECTOR: SMA FEMALE
(OPTION: TNC, TNC-B, 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

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	4	MOUNTING SCREWS: 4-40, 3/4"	MS24693-C	-
	2	MOUNTING SCREWS: 6-32, 3/4"	MS24693-C	-
	1			

NOTICE OF PROPRIETARY RIGHTS

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SIZE:	(START - END) FREQ.	POLARIZATION:	LNA:
1: 2" SQ.	1.25 - 1.35 GHz	LL: LHCP	A1: WITH +23 dB LNA
1.8: 1.9" SQ.	1.35 - 1.45 GHz	RR: RHCP	A2: WITH +43 dB LNA
2: 2.6" DIA.	2.00 - 2.30 GHz		P: WITHOUT LNA
3: 3.5" DIA.	2.20 - 2.40 GHz		
4: MINI ARINC	2.40 - 2.50 GHz		
	X.XX - Y.YY GHz		

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
4	MOUNTING SCREWS: 4-40, 3/4"	MS24693-C	-	-	3
4	MOUNTING SCREWS: 6-32, 3/4"	MS24693-C	-	-	2
1					1

P/N: 2G2.028-2.287RL-PP-XSS-1-S

CABLES LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	+1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MM: MMCX	+2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N, NB: N; N-Bulkhead	+3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	+4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		+5: TAN #33446 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ANGLES
FRACTIONS: DECIMALS ARE: ± 1/64 .001 .005 ± .1°	
TOLERANCE S/M PER ANSI Y14.5	
RELIEVE ALL SHARP EDGES PER MIL-STD-883C METHOD 2005 TO R .010	
DATE ON A COMMON DATE	
MACHINED SURFACES	
DO NOT SCALE DRAWING	

ANTCOM CORP. TORRANCE, CALIFORNIA

2.6" DIA.

DUAL PASSIVE S-BAND ANTENNA

SCALE 1/1

SHEET 1 OF 1

<http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf> (Amplifiers/Power Divider/Combiner/Filters)