



(0.7-8.0) GHz Conical Spiral Antenna, P/N: ConicalSpiral-1-8-X-X-R (LHCP)
 P/N: ConicalSpiral-1-8-X-X-L (RHCP)
 (5.27" Dia. X 4.41" Height), Back Mount Configuration



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

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4.407 [111.94]

Ø5.274 [Ø133.96]

8X 4-40 UNC ON 4.00 DIA.

SMA FEMALE CONNECTOR (Option: TNC, N, or BNC)

SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		DATA	4/14/16	S.H.

ELECTRICAL:

FREQUENCY:	(0.7 - 8.0) GHz	
PATTERN:	HEMISPHERICAL	
POLARIZATION:	LHCP	
ANTENNA GAIN (dBic):	Free Space	12 in G.P.
0.70 GHz:	+2.8	-3.7
0.75 GHz:	+2.1	+1.2
0.80 GHz:	+1.4	+0.5
0.85 GHz:	+3.5	+4.1
0.90 GHz:	+3.3	+5.8
0.95 GHz:	+5.8	+8.9
1.0 GHz:	+3.3	+8.7
1.70 GHz:	+3.6	+4.8
1.80 GHz:	+3.7	+3.0
1.90 GHz:	+3.6	+3.9
2.0 GHz:	+4.2	+4.5
2.1 GHz:	+3.9	+4.5
2.2 GHz:	+5.3	+4.5
2.3 GHz:	+4.8	+4.3
2.4 GHz:	+4.6	+5.2
2.5 GHz:	+5.0	+8.7
2.6 GHz:	+5.3	+8.2
2.7 GHz:	+4.5	+7.4
4.0 GHz:	+3.5	+4.9
8.0 GHz:	+3.8	+6.9
BEAM WIDTH (3dB):	(70 to 120) Degrees	
VSWR:	2.7:1	
OUTPUT IMPEDANCE:	50Ω	
POWER HANDLING:	50 Watts	
AXIAL RATIO:	3dB	

MECHANICAL:

SIZE: Height: <4.407in [108.81mm], Dia: 5.3 in [135mm]
 WEIGHT: <8.89oz. (252 g)
 FINISH: NATURAL MATTE
 MATERIAL: THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE
 CONNECTOR: SMA FEMALE (OPTION: TNC, N, or BNC)
 MARKING: 62065-1010920-01 Rev A MFR-24930 S/N:xxxxx

ENVIRONMENTAL:

TEMPERATURE: -67°F to +185°F [-55°C TO +85°C]
 ALTITUDE: 70,000 ft.
 VIBRATION: 12 G's

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: DO-160D, MIL-C-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		DATA	4/14/16	S.H.

QUANTITY REQD **PARTS LIST**

1	-	-	-	-	-	1
1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES						
FRACTIONS TOLERANCES ANGLES						
± 1/64 .XX# .015 ± 1°						
TOLERANCE SYM PER ANSI Y14.5						
REMOVE ALL BURRS						
BREAK EXTERNAL EDGES .005 TO .015						
FILETS R .005 TO R .030						
SCREW THREADS PER MIL-S-8879						
DIA'S ON A COMMON & OF .005						
MACHINED SURFACES 125						
DO NOT SCALE DRAWING						

ANTCOM CORP. TORRANCE CALIFORNIA

CONICAL SPIRAL ANTENNA

ORIGINAL DRAWN	S. HUYNH	May-08-12
ORIGINALY DESIGNED	S. HUYNH	May-08-12
UPDATED	S. HUYNH	June-14-13
UPDATE DRAWN	P. TRAN	June-14-13
APPROVED	S. HUYNH	June-14-13

SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	ConicalSpiral-1-8-X-X-R	A

SCALE 1/1 SHEET 1 OF 1

FREQUENCY: X-Y: (X-Y) GHz: 1-8

FEMALE CONNECTOR: S: SMA N: N B: BNC

COLOR: -1: GLOSS WHITE #17928 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B -3: OLIVE DRAB GREEN #34094 PER FED-STD-595B -4: LUSTERLESS BLACK #37038 PER FED-STD-595B -5: DESERT TAN #33446 PER FED-STD-595B

P/N: ConicalSpiral-1-8-X-X-R