



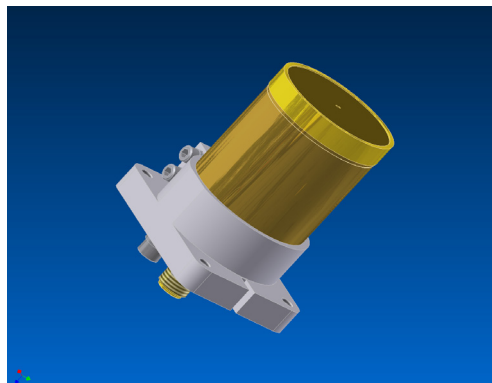
HIGH PERFORMANCE
ANTENNAS

PRODUCT DATA

42340-01

SPIRAL ANTENNA ASSEMBLY, 6-18 GHz
P/N: 42340-01

Frequency - GHz	6.0 - 18.0	
Polarization	LHC	
Gain - dBiC	2 @ 6 GHz 3-4 @ 8-18 GHz	Minimum, on Boresight
	-6 @ 2-6 GHz	Minimum, @ $\pm 45^\circ$
Axial Ratio - dB	<3 @ 6-8 GHz <2 @ 8-18 GHz	Maximum, on Boresight
	<3.5 @ 6-18 GHz	Maximum, @ $\pm 45^\circ$
Beamwidth - Deg	>80° @ 6 GHz >70° @ 8 GHz >60° @ 18 GHz	-3dB points
Beam Squint - Deg	5.0	Maximum
VSWR	2.5 : 1	Maximum
Gain Tracking - dB	< 2.5 (SET OF 6)	Unit to unit, within $\pm 60^\circ$, for C,V,H polarizations
Phase Tracking - DEG	< 4 on Boresight < 8 @ $\pm 60^\circ$ (SET OF 6)	Unit to unit, monotonically rising from boresight to 60° , for C,V,H polarizations
Power - Watts	2 / 20	CW / Peak
Connector	SMA	Female
Weight - Grams	70	Maximum
Environment	Flight	To 60,000 Feet



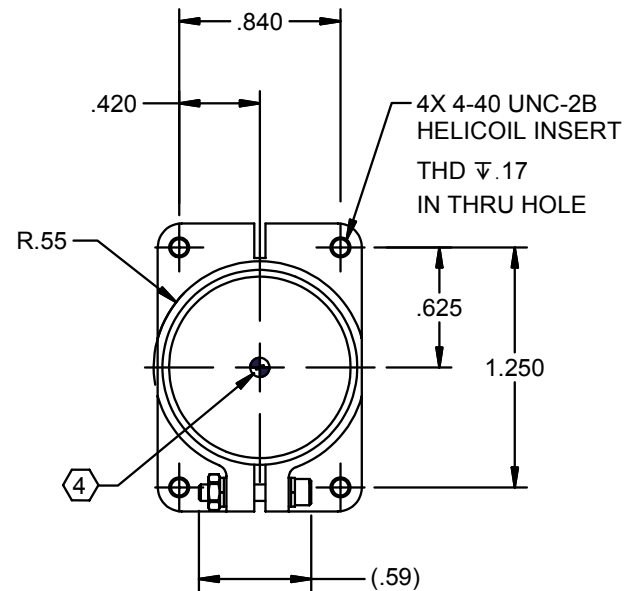
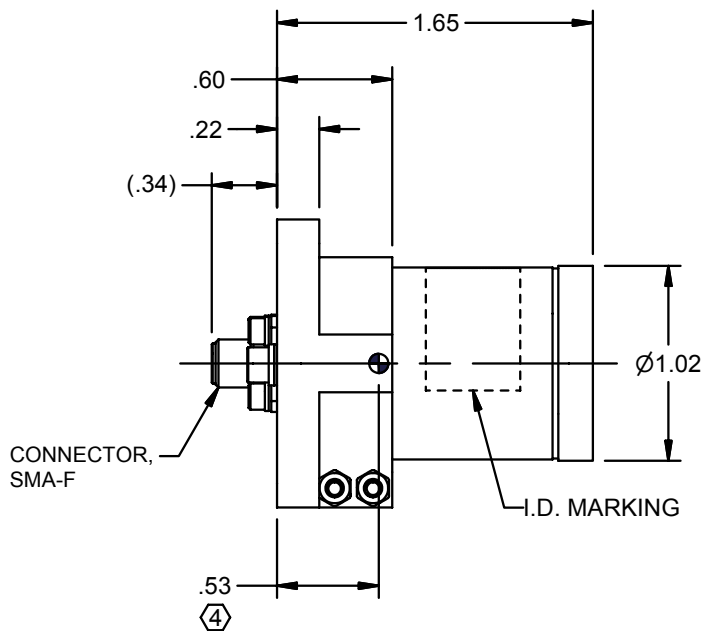
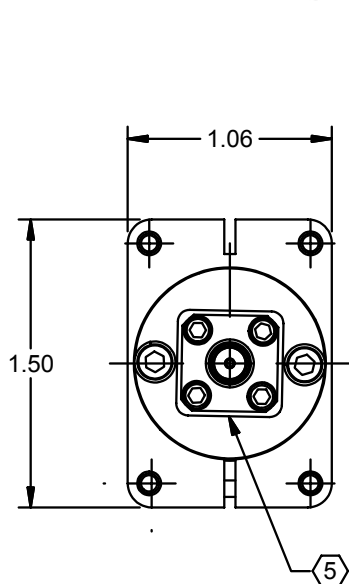
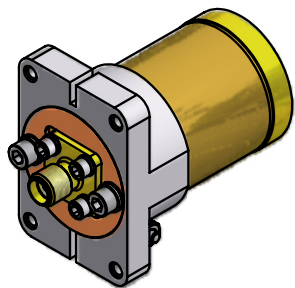
AMT MICROWAVE CORPORATION
850 CALLE PLANO CAMARILLO CA 93012
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AMT PROPRIETARY INFORMATION

REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
A	DESIGN RELEASE	22JUN2006	S.H.



- 1. POLARIZATION: LHC
- 2. WEIGHT: 70 GRAMS MAXIMUM.
- 3. FINISH: ALUMINUM PARTS: CHEMICAL CONVERSION PER MIL-C-55451.

- ④ ⊕ INDICATES CENTER OF GRAVITY. TOLERANCE: ± .13.
- ⑤ ORIENTATION OF CONNECTOR FLANGE FOR REF ONLY.

NOTES: UNLESS OTHERWISE SPECIFIED.

PREPARED BY SONBJ	DATE 6/13/2006
APPROVED BY SH	DATE 6/16/2006

AMT AMT MICROWAVE CORPORATION
CAMARILLO CA 93012

UNLESS OTHERWISE NOTED
DIM AND TOL PER ANSI Y14.5
MACH 125 √ PER ANSI B461
REMOVE BURRS AND SHARP
EDGES .010 MAX
TOL: .XX±.030 .XXX±.005
ANGLE±1°

TITLE
**SPIRAL ANTENNA ASSY,
6-18 GHz**

SIZE A	CAGE CODE 6AB36	DWG NO 42340-01	REV A
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MATERIALS: PLEASE SEE NOTES

SCALE: NTS

SHEET 1 OF 1