



CAVITY BACKED SPIRAL ANTENNAS

DATA SHEET
No. B127a

- MULTI-OCTAVE BANDWIDTH
- CIRCULARLY POLARIZED
- CONSTANT BEAMWIDTH
- LOW AXIAL RATIO

DESCRIPTION

MEC's cavity backed spiral series offer constant beamwidth, low axial ratio, and wideband performances. Models 2010's, 2040's, 2070, 2090, and TT818 series which utilize a tapered line balun design provide excellent repeatability in electrical performances from unit to unit and can be amplitude or phase matched in pairs or in groups. Models 2100, C390-188, -223, and -227 series which utilize a Marchand balun design yield improvements in gain and beam squint.

All units offer low VSWR, light weight, compact size, and are suitable for airborne or shipboard Direction Finding System or Radar Warning Receiver applications.



MODEL NUMBER	FREQUENCY (GHz)	INPUT INTERFACE	GAIN (dBiL)	NOMINAL 3-dB BEAMWIDTH (degrees)	BEAM SQUINT (degrees)	CW POWER (WATTS)	POLARIZATION	MAXIMUM AXIAL RATIO (dB)	MAXIMUM VSWR
2010	2-18	SMA	-7 to 1	80	<6	5	LCP	1.5	2.3:1
2010-1	2-18	SMA	-7 to 1	80	<6	5	LCP	1.5	2.3:1
2010-2	2-18	SMA	-7 to 1	80	<6	5	LCP	1.5	2.3:1
2070	2-18	SMA	-5.5 to 1	80	<6	5	LCP	1.5	2.0:1
2100	2-18	TNC	-6 to 2	80	<5	5	RCP	2.0	2.3:1
C390-188	2-18	SMA	-6 to 2	80	<5	5	LCP	1.5	2.5:1
C390-223	2-18	SMA	-6 to 2	80	<5	5	RCP	1.5	2.5:1
C390-227	2-18	SMA	-6 to 2	80	<5	5	LCP	2.0	2.5:1
2040	0.5-2.0	SMA	-12 to 1	80	<6	10	LCP	1.5	2.3:1
2040-1	0.5-2.0	SMA	-12 to 1	80	<6	10	LCP	1.5	2.3:1
2090	0.5-2.0	SMA	-7 to 2	80	<6	20	RCP	1.5	2.0:1
TT818	8-18	SMA	-2 to 2	80	<6	5	LCP	2.0	2.0:1