

SL1300EVK - Sarantel Sample Box

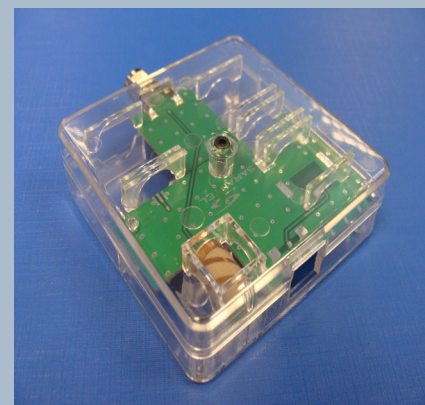


Product Description

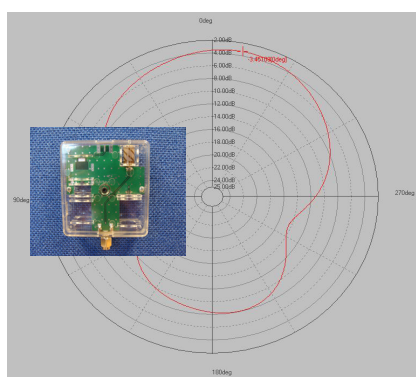
The SL1300 Sample Box provides the engineer with an opportunity to validate the antenna. The box itself is a crystal polycarbonate moulding so that the antenna and the means of support can clearly be viewed.

The antenna requires a DC block if connecting to active circuitry.

The "SL1300 Mechanical Integration Guidelines" must be read before any design work is commenced to ensure ease of integration and hence avoiding any unnecessary delays.



Integrated Radiation Pattern (dBic)



The SL1300 antenna is ideal in applications where:

- the device is handheld, body-worn, or otherwise surrounded by high-dielectric materials that would de-tune conventional antennas;
- the antenna is tightly integrated with other antennas, e.g., Bluetooth®/GPS receivers or GPS/GSM mobile phones;
- there are tight constraints on the size of the device or the amount of space allocated to ground planes; SL1300 does not need a ground plane.
- the orientation of the device is random or the antenna will be embedded in the device

Specifications

	Minimum	Typical	Maximum	Unit
Part Number	SL1300EVK			Each
Type	Quadrifilar Helix			
Embedded Frequency		1575.42		MHz
Polarization	Right-hand circular polarized			
Integrated Gain(on PCB-see page 3)		-5.0dBic		dBic @ zenith
Beamwidth		>135		Degrees
Bandwidth (3dB)		15		MHz
Axial Ratio(Free Space)		<1.5		@Zenith
VSWR		<2.0:1	2.3:1	
Impedance		50		Ω
Operating Temperature	-40	+20	+85	$^{\circ}\text{C}$
Box Dimensions	60 x 60 x 18			mm
Weight	33.7			grams