

Key Features

- Superior dipole design
- Quad band GSM & 3G
- Small footprint
- 2dBi GSM Gain



Additional Considerations

- Mid-fed cable outlet provides certain users better mounting suitability
- Quad band GSM & 3G compatibility allows for worldwide usage
- 40 x 6.7 x 1mm PCB dimensions

General Description

The Echo 30 is a quad band GSM & 3G tuned PCB antenna, that has been designed with a T-Shaped dipole form factor. With a miniature footprint size of 40 x 6.7mm, the Echo 30 is perfect for applications where internal space for components is limited or when using an external antenna is simply not appropriate. Furthermore, its unique T-shaped design allows this antenna to be fixed to the inside of an enclosure or directly onto a PCB with little hassle. Common applications for this embedded antenna include: waterproof / water tight designs, portable solutions and general GSM applications that require a compact invention.

The Echo 30 is quad band GSM / GPRS and 3G / UMTS tuned antenna, designed to resonate to a high level at GSM 850, 900, 1800, 1900 and 3G 2100MHz. This PCB antenna manages a peak gain of 2.0dBi across the operating frequency band. Its

wide operating frequency band allows for worldwide cellular applications over the quad band GSM/GPRS networks and also high data transfer rates via 3G/UMTS.

The Echo 30 is supplied, as standard, with a 100mm 1.13mm coax cable, terminated with an IPEX connector. Custom cable length and connector types are available for volume requirements.

Rev 1.0

Key Specifications - Electrical

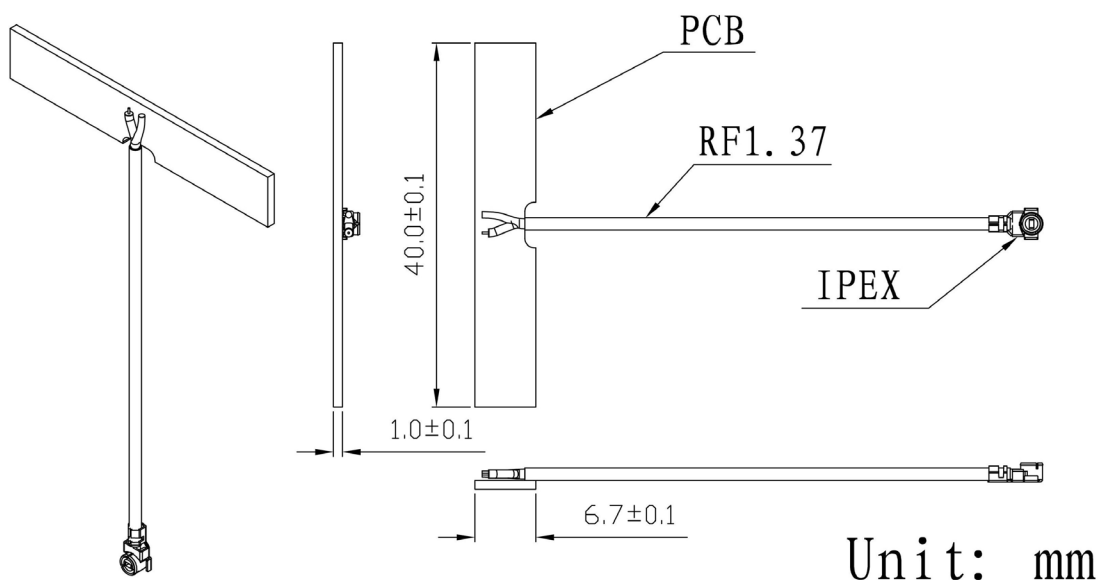
Impedance:	50 ohm
VSWR:	<3.0
Gain:	2dBi
Frequency range:	824 ~ 960MHz 1920 - 2170MHz
Polarization:	Linear

Key Specifications - Environmental

Operating temperature:	-40 to +85°C
Relative humidity:	Up to 95%
Vibration:	10 to 55Hz with 1.5mm amplitude 2 hours
Environmentally friendly:	RoHS Compliant

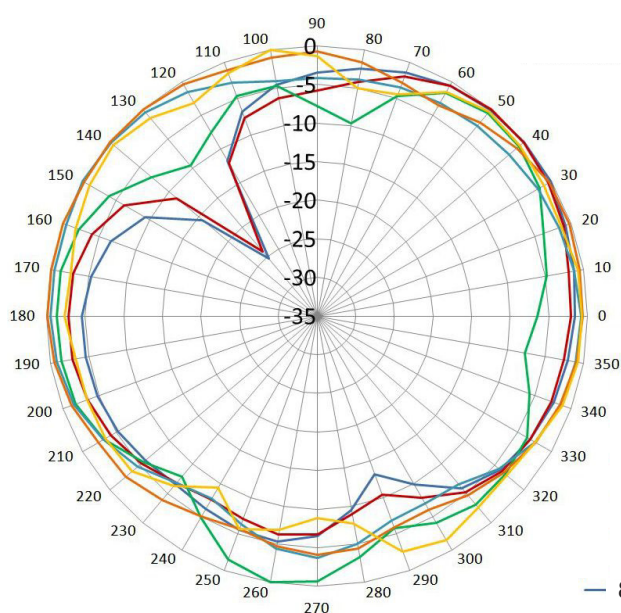
Key Specifications - Mechanical

Dimensions:	40 x 6.7 x 1.2mm
Cable:	1.13mm coax
Connector:	IPEX
Mounting method:	

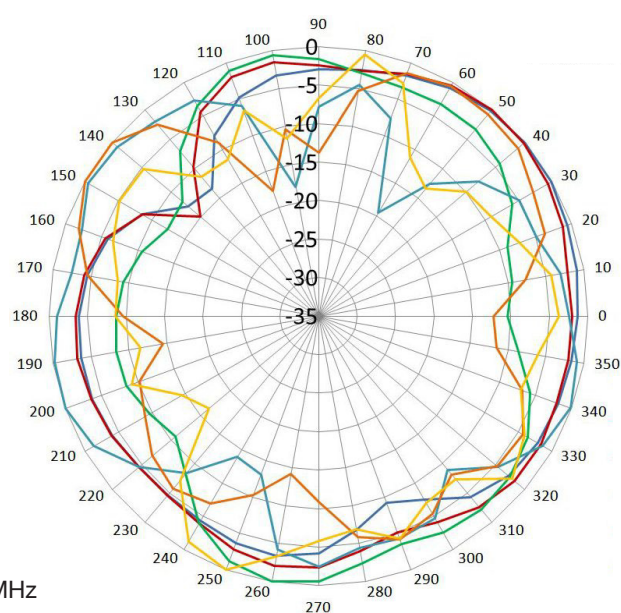


Radiation Pattern

Horizontal Plane



Vertical Plane



- 824MHz
- 880MHz
- 960MHz
- 1920MHz
- 1990MHz
- 2170MHz

Ordering Details:

Part number	Description
ECHO30/0.1M/IPEX/S/S/26	Quad Band GSM and 3G T-shaped PCB Antenna, 100MM Cable, IPEX Connector