

LE-Q7C

Compact & Rugged Wide-band LTE Antenna

Product Description

The LE-Q7C is a compact and rugged industrial-grade antenna with the coverage of 2G/ 3G/ 4G bands. It's mounted to the surface by a 3M tape attached at the antenna bottom. The highest antenna efficiency could reach 82.31% at low band and 63.06% at high band, so it's ideally to be used in the areas where the signal is poor. Please also contact us for the customized if required.

Highlight

- ✓ Compact design combined with high performance antenna element
- ✓ Separated RF adapter and cable design for installation flexibility.
- ✓ Cable direct entry through a cable terminated by a RF connector is optional.
- ✓ Customized color for the housing or post length to fit the installation is available.

Feature

- ✓ Central screw mount, easy installation.
- ✓ Support 2G /3G /4G cellular frequency



Mechanical Specification

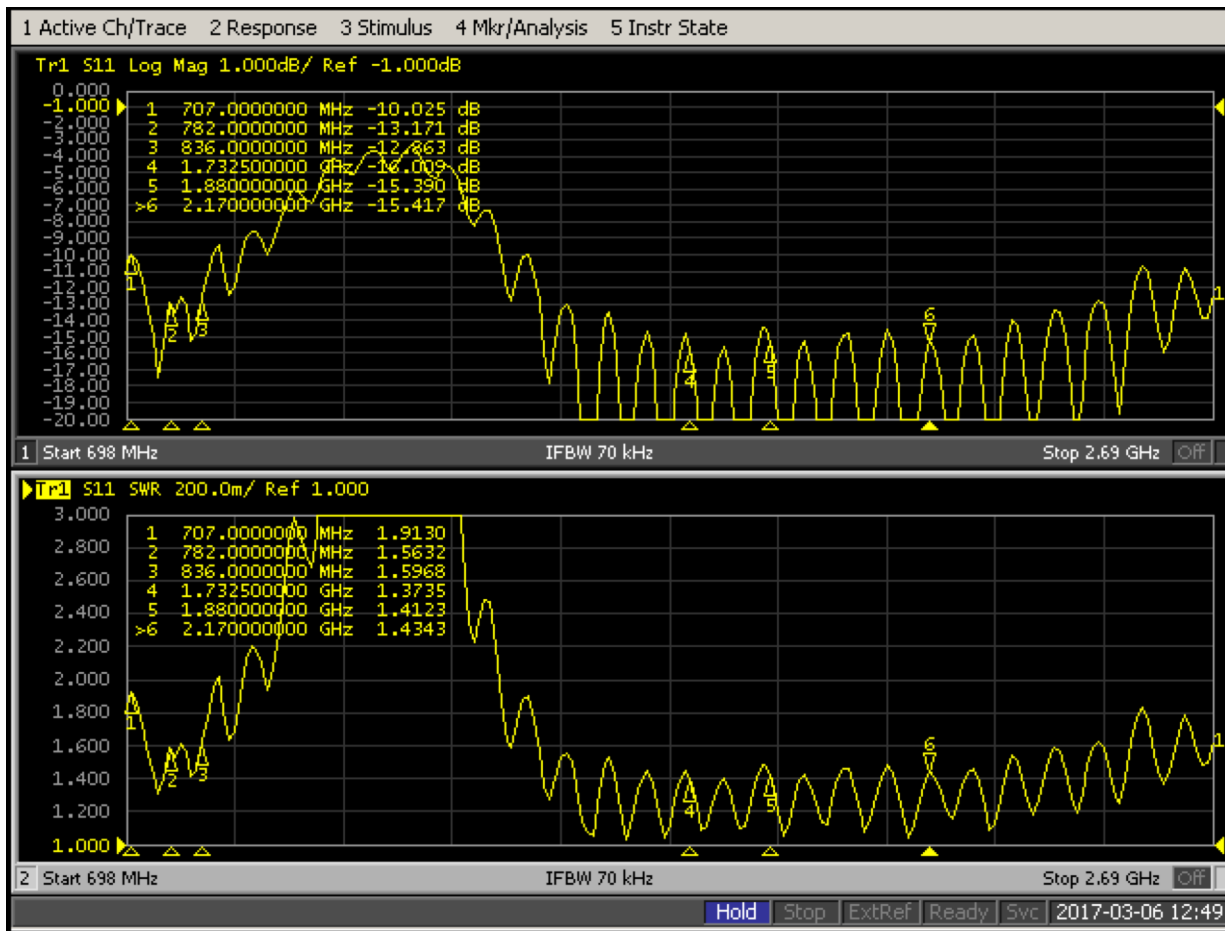
Dimension	48mm(dia.) x 82mm
Mounting	Through hole mount with a 3M tape
Cable	RG-174/ LMR-100/ LMR-195
Connector	SMA type plug ** Other RF connectors are optional
Enclosure	ABS
Operation Temperature	-35°C ~ +80°C
Storage Temperature	-40°C ~ +85°C
Weight	95g

Electrical Specification - Cellular

Frequency	698~960 & 1710~2170MHz
Gain(Peak)	2.71 dBi @ 698~960MHz 3.28 dBi @ 1710~2170MHz
Efficiency	82.31% @ 698~960MHz 63.06% @ 1710~2170MHz
Impedance	50Ω
VSWR	<2.0

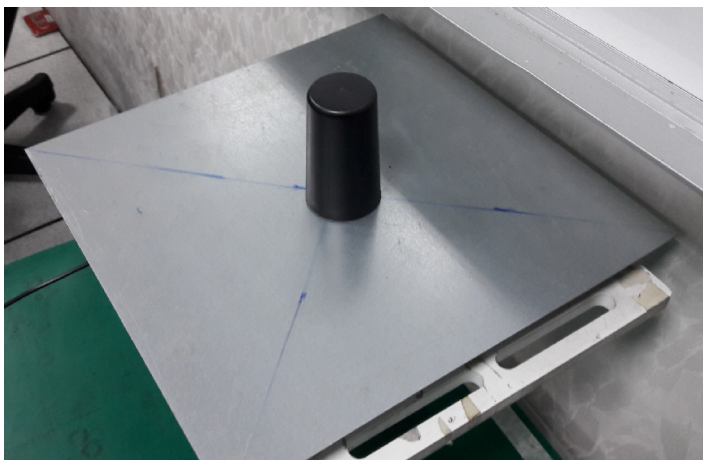


Antenna Measurement _ Return & VSWR



Note:

- a. The antenna is measured under a 30 x 30cm ground plane
- b. Equipment: Agilent 5071B





Antenna Measurement _ Gain & Efficiency

Frequency (MHz)	707	734	746	766	782	824	836	868
Directivity (dBi)	2.10	2.95	3.18	3.45	3.48	3.55	3.64	3.71
Efficiency (%)	80.30	76.48	80.25	78.25	71.81	82.37	76.36	69.92
Peak Gain (dBi)	1.15	1.78	2.23	2.38	2.04	2.71	2.47	2.16

Frequency (MHz)	880	915	1710	1733	1755	1785	1805	1850
Directivity (dBi)	3.70	3.81	4.48	4.69	4.77	4.95	5.04	4.76
Efficiency (%)	66.71	56.93	61.64	60.64	61.81	58.14	56.41	58.28
Peak Gain (dBi)	1.95	1.36	2.37	2.52	2.68	2.59	2.55	2.41

Frequency (MHz)	1880	1920	1990	2110	2133	2155	2300
Directivity (dBi)	4.70	5.29	5.23	5.27	5.37	5.36	5.42
Efficiency (%)	58.85	63.06	56.38	50.57	50.82	50.91	56.31
Peak Gain (dBi)	2.40	3.29	2.75	2.30	2.43	2.43	2.93

Note:

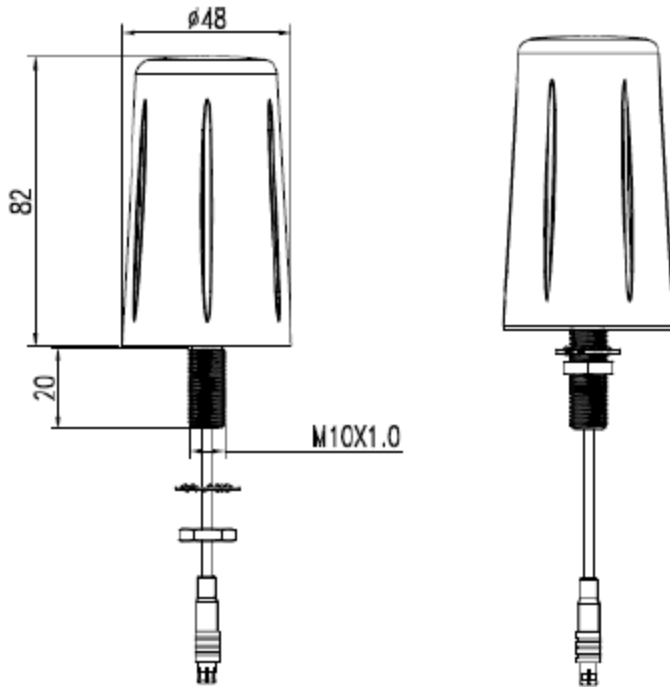
- a. Antenna is tested inside the CTIA authorized anechoic chamber
- b. The antenna is put on a 30x30cm metal sheet with 1.25m cable

Antenna Drawing



LE-Q7C

Industrial Rugged LTE Antenna



- a. Cable Options: RG-174 / LMR-100 / LMR-195
- b. Connector: RF connectors
- c. Length of the posted could be adjusted to fit the thickness of the surface
- d. Color of the housing can be customized

****Please contact us for the antenna drawing**

