

LE-M7C

Side-cable-entry Rugged Ground-enhanced Wide-band LTE Antenna



Compliant



Product Description

The LE-M7C is a rugged magnetic mount antenna with the coverage of 2G/ 3G/ 4G bands of high gain and re-radiation efficiency and is compatible with cellular LTE devices and equipments worldwide. It is ideally to be used at the places where the signal is poor and requires a better reception. With the magnetic side-cable-entry design stainless steel antenna base, the antenna is easy to install without having to a hole.

For the customized antenna design service, please also contact us for the customized if required.

Highlight

- ✓ Compact design combined with high performance antenna element
- ✓ Magnetic mount.
- ✓ Screw mount and cable direct entry versions are available
- ✓ Customized antenna design is available.

Feature

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

Mechanical Specification

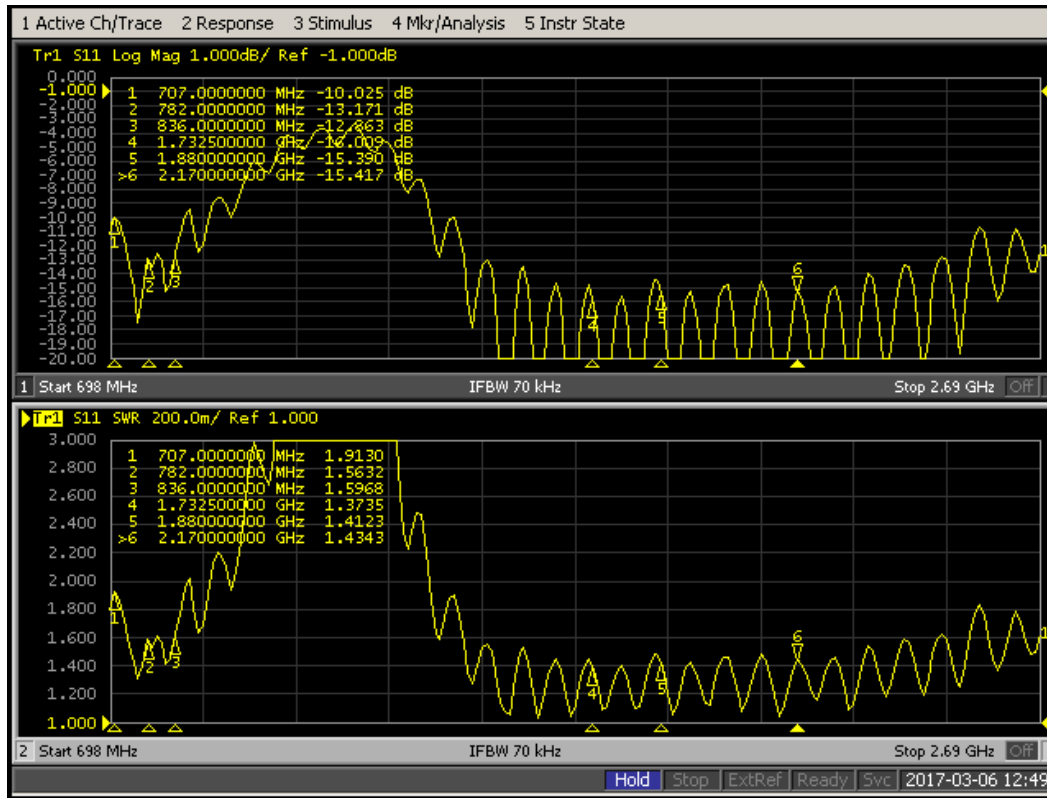
Dimension	48mm(dia.) x 82mm
Mounting	Magnetic mount
Cable	RG-174 or LMR-100
Connector	SMA type plug ** Other RF connectors are optional
Enclosure	ABS
Operation Temperature	-35°C ~ +80°C
Storage Temperature	-40°C ~ +85°C
Weight	95g

Electrical Specification - Cellular

Frequency	698~960 & 1710~2700MHz
Gain(Peak)	2.71 dBi @ 698~960MHz 3.28 dBi @ 1710~2690MHz
Efficiency	82.31% @ 698~960MHz 63.06% @ 1710~2690MHz
Impedance	50Ω
VSWR	<2.0
Polarization	Linear



Antenna Measurement _ Return & VSWR



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:

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