

LE-Q9F

Fiberglass Wide-band LTE Antenna



Product Description

The LE-Q9F is a wide-band antenna with the coverage of telecom 2G/ 3G/ 4G bands. The fiberglass-made antenna housing is environment-proof for outdoor use.

Highlight

- ✓ Compact design, 7.7 inches, with high performance antenna element
- ✓ Antenna adapter cable is optional upon customer's request (can be quoted based on varies cable types, length and connector types)

Feature

- ✓ Support 2G / 3G / 4G cellular frequencies



Mechanical Specification

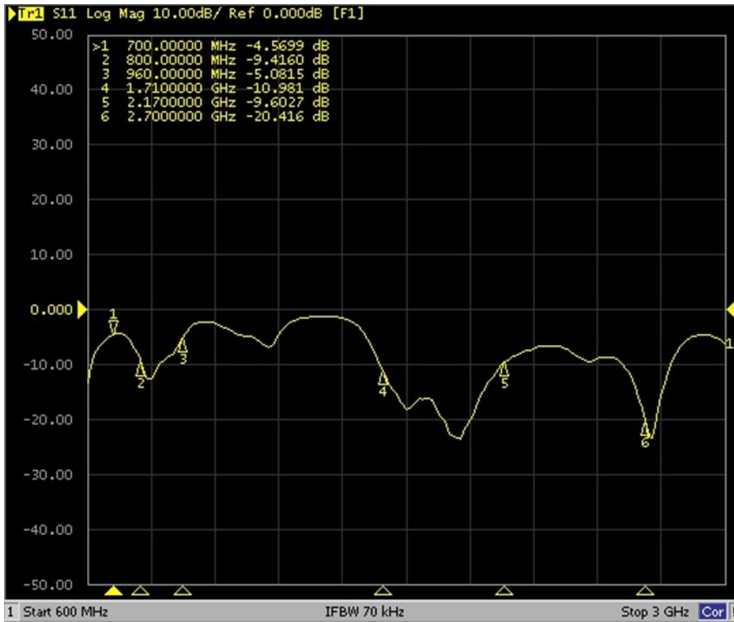
Dimension	13mm(dia.) x 195mm(Height)
Connector	N Plug
Enclosure	Fiberglass - White
Operation Temperature	-30°C ~ +60°C
Storage Temperature	-35°C ~ +70°C
Weight	55g

Electrical Specification - Cellular

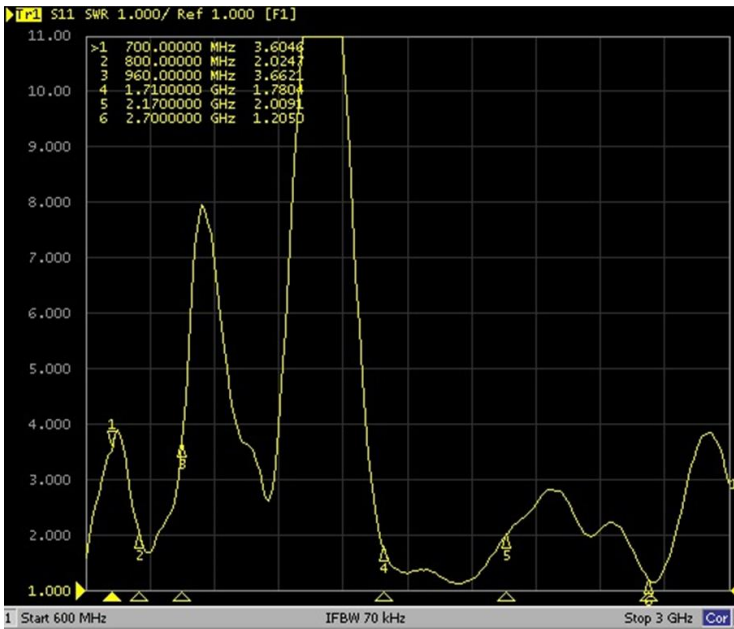
Frequency	690~960 & 1710~2700MHz
Gain(Peak)	1.77 dBi @ 690~960MHz 3.67 dBi @ 1710~2700MHz
Efficiency	50.05% @ 698~960MHz 70.77% @ 1710~2170MHz
Impedance	50Ω
VSWR	<4.0
Polarization	Vertical



Antenna Measurement _ Return Loss & VSWR



Return Loss

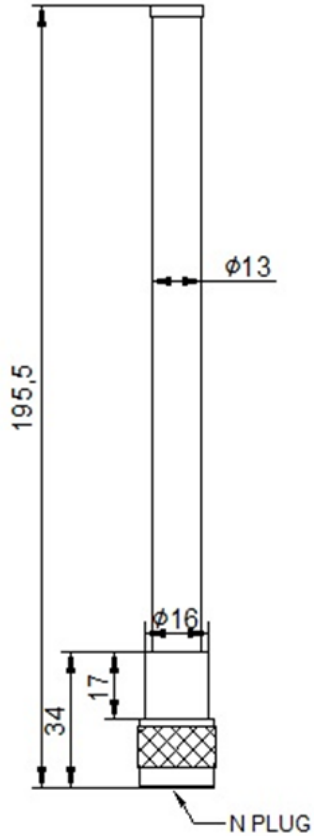


VSWR

Antenna Measurement _ Gain & Efficiency

Frequency (MHz)	700	720	740	760	787	800	820	840
Directivity (dBi)	3.81	4.02	4.30	4.59	4.80	5.15	5.09	4.81
Efficiency (%)	42.68	41.78	40.13	38.66	46.76	50.05	46.52	44.42
Peak Gain (dBi)	0.11	0.23	0.34	0.46	1.50	2.14	1.77	1.28
Frequency (MHz)	860	880	900	920	940	960	1710	1730
Directivity (dBi)	5.18	5.16	5.26	5.57	5.87	6.21	5.26	5.50
Efficiency (%)	41.11	40.28	37.79	34.01	29.12	24.88	27.51	31.87
Peak Gain (dBi)	1.32	1.21	1.04	0.88	0.51	0.17	-0.35	0.53
Frequency (MHz)	1750	1770	1790	1810	1830	1850	1870	1890
Directivity (dBi)	5.44	5.22	4.90	4.48	3.90	4.07	4.35	4.54
Efficiency (%)	37.63	43.85	50.02	54.26	59.19	62.74	65.64	67.21
Peak Gain (dBi)	1.20	1.64	1.89	1.83	1.62	2.04	2.52	2.81
Frequency (MHz)	1910	1930	1950	1970	1990	2010	2030	2050
Directivity (dBi)	4.83	4.80	4.88	5.01	5.03	5.20	5.53	5.64
Efficiency (%)	70.12	69.74	70.77	69.74	65.12	64.69	60.56	57.90
Peak Gain (dBi)	3.29	3.24	3.38	3.45	3.17	3.31	3.35	3.27
Frequency (MHz)	2070	2090	2110	2130	2150	2170	2510	2530
Directivity (dBi)	5.73	5.73	5.85	5.89	5.97	5.86	5.30	5.53
Efficiency (%)	57.27	56.95	57.97	58.65	58.85	57.44	45.90	43.15
Peak Gain (dBi)	3.31	3.29	3.48	3.57	3.67	3.45	1.63	1.88
Frequency (MHz)	2550	2570	2590	2610	2630	2650	2690	
Directivity (dBi)	6.56	5.44	5.33	5.04	4.46	4.46	4.4	
Efficiency (%)	2.81	1.72	41.66	41.77	42.10	47.04	56.25	
Peak Gain (dBi)	42.24	42.46	1.53	1.25	0.71	1.18	1.90	

Antenna Drawing



- a. Antenna Material: Fiberglass
- b. Connector: N Plug