



Part No. 1004112

Broadband External LTE / Cellular Antenna

700 / 750 / 850 / 900 / 1800 / 1900 / 2100 / 2700 MHz

Supports: Broadband LTE (OCTA-BAND), LTE CAT-M, NB-IoT, SigFox, LoRa, Cellular LPWA, RPMA, Firstnet



High Performance External LTE/Cellular Antenna

Low Band: 698-960 MHz High Band: 1710-2155 MHz High High Band: 2500-2700 MHz

KEY BENEFITS

Greater Flexibility

Different connector options upon request. Small form factor and low profile. Independent of ground, the performances are maintained across design.

Quicker Time-to-Market

Standard antenna eliminates design fees, redesign cycle time and minimize risk associated with a customer solution. Quicker time to market.

Reliability

Comply with latest RoHS requirements

APPLICATIONS

Firstnet

Medical Automotive applications • Healthcare Point of Sale Home automation Tracking Smart NB-IoT Sigfox metering LoRa M2M, Industrial Cellular devices **LPWA RPMA** IoT

LTE CAT-M

Ethertronics' 1004112 antenna is designed to offer the best performances across LTE frequencies, regardless of the ground it is connected to. Its hinged connector and low profile design allows for diverse integration and functionality. Please refer to ordering guide for connector selection.

The 1004112 broadband antenna offers full coverage for LTE bands 2, 4, 5, 7, 8, 12, 13, 14, 17, 25, 26 among others. Ethertronics antennas are versatile easy plug and play solutions for any major network carriers.

Electrical Specifications

Measured in Free space

Frequency (MHz)	690-960	1710-2200	2500-2700		
VSWR Match	< 2.5:1	< 2.5:1	< 2.5:1		
Average Efficiency	65%	60%	78%		
Peak Gain	1.18 dBi	4.5 dBi	4.0 dBi		
Polarization	Linear				
Feed Point Impedance	50 Ω unbalanced				

Mechanical Specifications & Ordering Part Number

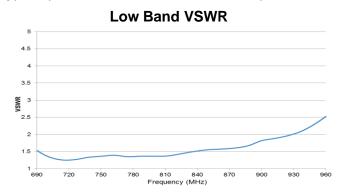
		<u> </u>			
Ordering Part #	1004112-A001	1004112-B002	1004112-C003		
Dimensions (mm)	218.2 x 27.2 x 13.8	227.1 x 27.2 x 14.5	218.2 x 27.2 x 13.8		
Mounting Type	External	External	External		
Connector Type	SMA (MALE) 90° Hinged	TNC (MALE) 90° Hinged	SMA (MALE) 90° Hinged		
Antenna Color	White	Black	Black		
Weight (grams)	31.5	43.2	31.5		
Operating Temperature (°C)		-30 to +70			
Max Power Handling (W)		5			

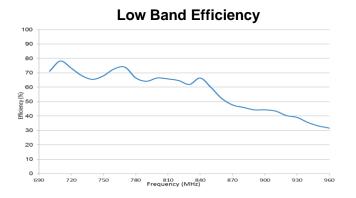
^{*}Additional variations available in different colors and connectors

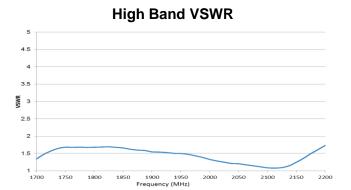


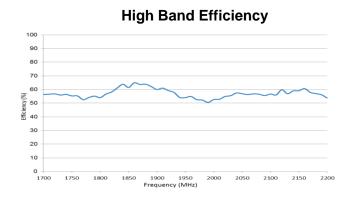
VSWR and Efficiency

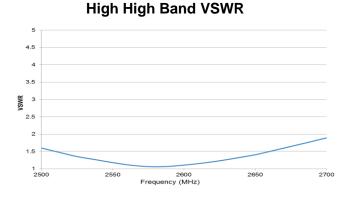
Typical performance, measured in free space

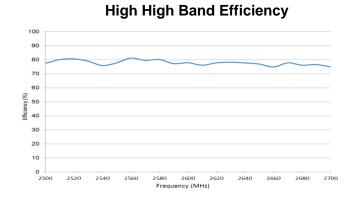








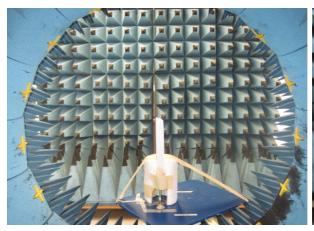


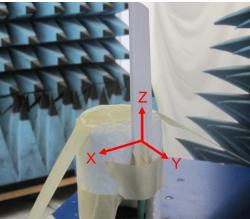




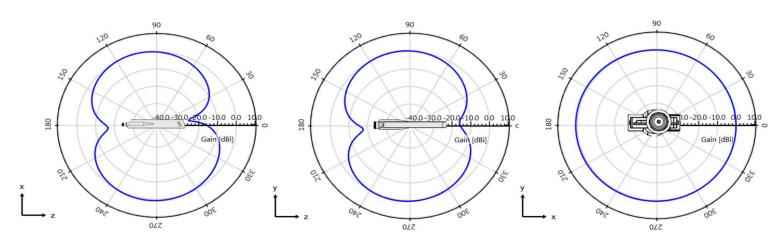
Antenna Radiation Patterns - Low / High Band

Typical performance, measured in free space

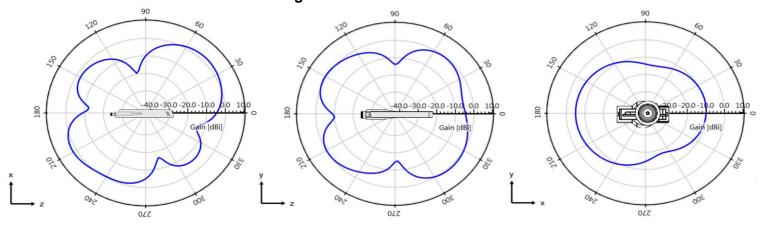




Low Band measured at 750 MHz



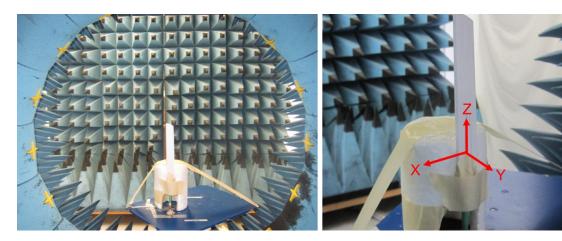
High Band measured at 1720 MHz



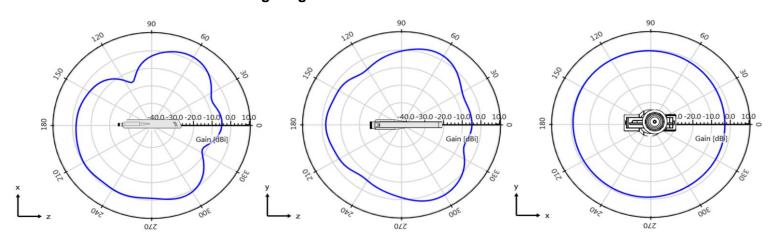


Antenna Radiation Patterns – High High Band

Typical performance, measured in free space



High High Band measured at 2550 MHz

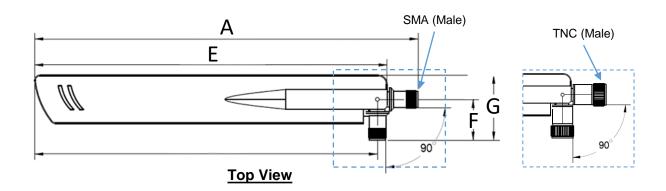


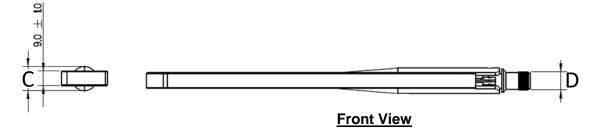


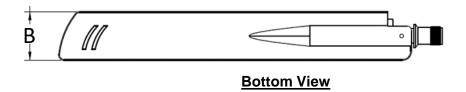
Mechanical Dimensions

Typical antenna dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Connector
1004112-A001	218.2 ± 3.0	27.2 ± 1.0	13.8 ± 1.0	10.1 ± 0.5	197.4 ± 3.0	27.4 ± 2.0	41.5 ± 2.0	SMA (Male)
1004112-B002	227.1 ± 3.0	27.2 ± 1.0	13.8 ± 1.0	14.5 ± 0.5	197.4 ± 3.0	36.4 ± 2.0	50.0 ± 2.0	TNC (Male)
1004112-C003	218.2 ± 3.0	27.2 ± 1.0	13.8 ± 1.0	10.1 ± 0.5	197.4 ± 3.0	27.4 ± 2.0	41.5 ± 2.0	SMA (Male)







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