

698-2700 MHz 1/2.5 dBi LTE Omni Surface Mount Antenna

with 3/8 in. Diameter Bushing

Ventev's 698-2700 MHz, 1/2.5 dBi omnidirectional surface-mount LTE antenna is designed for outdoor IoT and Mobile networks operating primarily in the 698-960/1710-2700 MHz bands. The antenna's 3/8 in. bushing allows it to insert into reclosers and other standard outdoor enclosures without enlarging the mounting holes. The unterminated leads allow insertion of the two leads through the 3/8 in. hole, and are typically terminated in a workshop or in the field. The two leads provide connections for primary and diversity antenna ports found on many popular cellular modems.

Specifications

SKU	254058
Manufacturer Part Number	M302004002D1818SG
Operating Frequency Range	698-960/1700-2700 MHz
Gain	1/2.5 dBi
Polarization	Vertical
Horizontal Beamwidth	360°
VSWR	2.5:1
Nominal Impedance	50 Ohms
Max Input Power	50 W
Number of Ports	2
Length of Lead	84 in.
RF Connector	Unterminated RG316
Application	Outdoor
Operating Temperature	-40° to 140°F
Dimensions	3.5 x 1.75 in.
Weight	1.5 lbs.
Mounting Options	Surface
Ground Plane	Required for optimal performance



Features & Benefits

- Omni surface mount antenna covering 698-2700 MHz frequency band.
- Designed for outdoor IoT remote monitoring and mobile networks.
- The antenna's 3/8 in. bushing allows it to insert into reclosers and other standard outdoor enclosures without enlarging the mounting.
- The two leads provide connections for primary and diversity antenna ports found on many popular cellular modems.

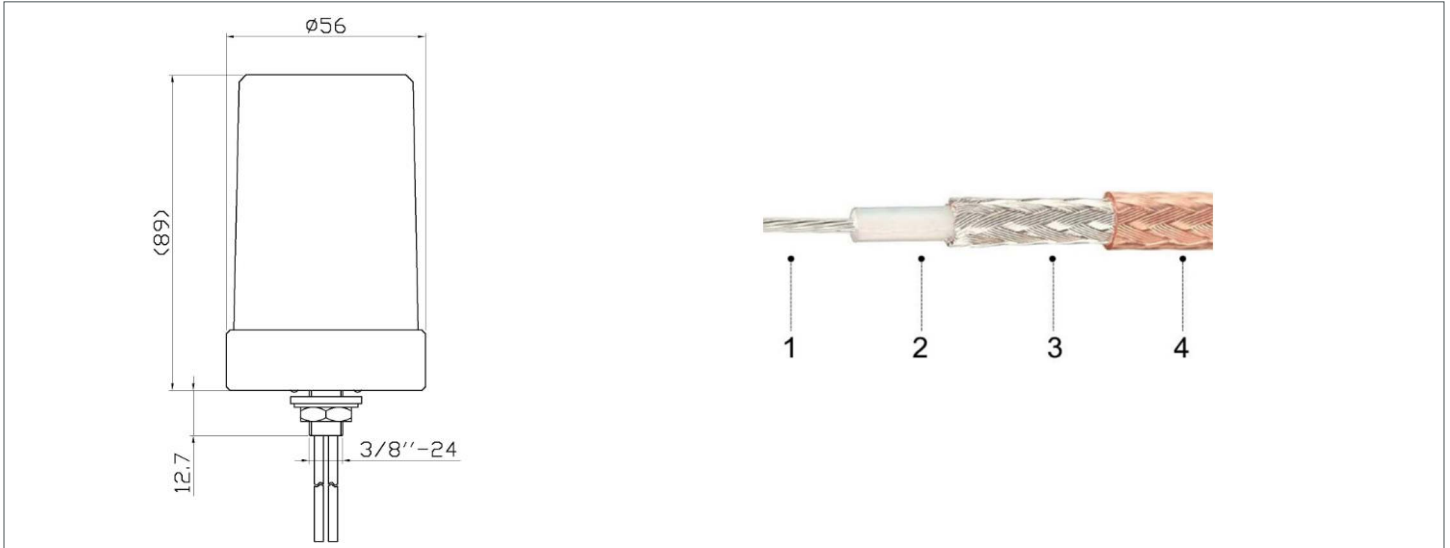


All product specifications are subject to change without notice or obligation.

698-2700 MHz 1/2.5 dBi LTE Omni Surface Mount Antenna

with 3/8 in. Diameter Bushing

Antenna & Cable Information



RG316 Cable Specification:

		Diameter	Material
1	Inner Conductor (stranded 7/0.17 mm)	0.02 in. (0.51 mm)	Silver plated, copper clad steel
2	Insulation or Dielectric	0.06 in. (1.52 mm)	PTFE
3	Shield	0.077 in. (1.95 mm)	Silver plated, copper braid
4	Outer Jacket	0.098 in. (2.5 mm)	FEP (transparent clear or transparent brown)

Installation Instructions*

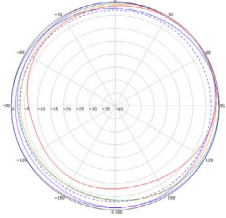
- Remove and retain the mounting nut.
- Lower the 7 ft. leads through the mounting hole.
- Set the antenna flat on the mounting surface.
- Install and tighten the mounting nut on the underside of the mounting surface.
- Terminate the connectors (sold separately) onto the antenna leads according to the connector manufacturer's recommendations.
- **Optional:** Place a small bead of silicone sealant around the edge of the antenna where it sits atop the mounting surface.

*NOTE: These instructions assume the antenna is being mounted to a flat metal surface.

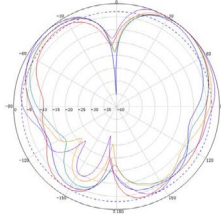
698-2700 MHz 1/2.5 dBi LTE Omni Surface Mount Antenna

with 3/8 in. Diameter Bushing

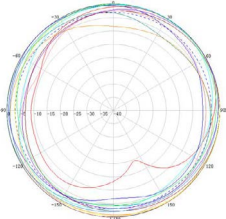
Radiation Patterns



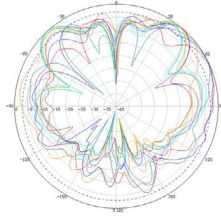
Port 1
698-960 MHz
H Plane



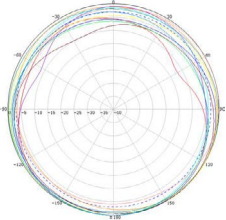
Port 1
698-960 MHz
H Plane



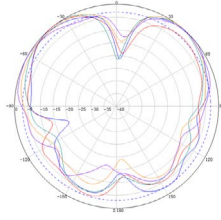
Port 1
1700-2700 MHz
H Plane



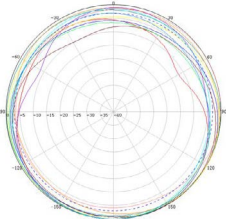
Port 1
1700-2700 MHz
H Plane



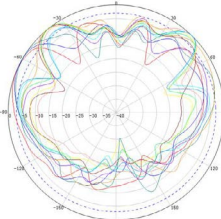
Port 2
698-960 MHz
H Plane



Port 2
698-960 MHz
E Plane



Port 2
1700-2700 MHz
H Plane



Port 2
1700-2700 MHz
E Plane