



# LTE BAND 28 COMPACT HELICAL CONNECTORIZED ANTENNA

## PART NUMBER: L000576-01

L000576-01 LTE band 28 compact antennas are rugged, low-cost and easy to install. The connectorized antenna targets 698 to 803 MHz for Cellular IoT (LTE-M, NB-IoT) applications/ traditional LTE Band 28/17/44, UMTS and GSM. This antenna is designed for rugged, low-cost and easy installation at the edge of PCB or outside of a device using an SMA connector.

The single frequency band of L000576-01 antennas makes the job of antenna selection simple, with better performance in the target frequency band than multiband antennas and rejection of signals from unwanted frequencies. The single frequency band of L000575-01 antennas makes the job of antenna selection simple, with better performance in the target frequency band than multiband antennas and rejection of signals from unwanted frequencies.

## FEATURES & BENEFITS

- LTE band 28 helical connectorized antenna targets 698 MHz to 803 MHz for Cellular IoT (LTE-M, NB-IoT) applications/ traditional LTE Band 28/17/44, UMTS and GSM.
- Designed for rugged, low-cost and easy to install at edge of PCB or outside of product by SMA connection.
- The following data is based on 41 x 90 x 1.6mm ground size
- No matching circuits required

## RF SPECIFICATIONS

Frequency Range (MHz)	698-803
VSWR	< 2.4:1
Average Efficiency	78%
Peak Gain	3.1 dBi
Average Gain	-1.1 dBi
Feed Point Impedance	50 ohms
Polarization	Linear polarization

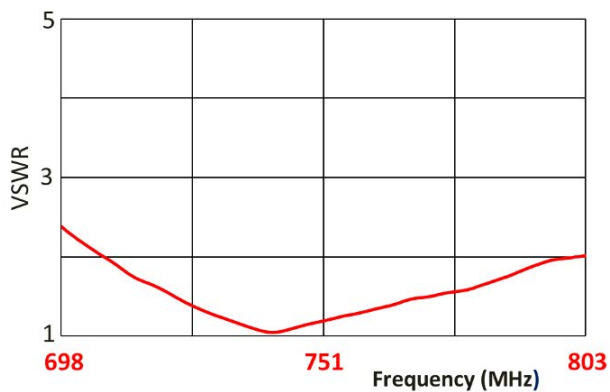
## MECHANICAL SPECIFICATIONS

Size ( L x W x H ) without screw	135.90 mm x $\Phi$ 10.7 mm ( L / D $\pm$ 2.0/ 0.5)
Weight without screw	< 5 g
Mounting	SMA connection
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Dielectric Material	Brass C3604 / ABS
Hazardous Materials	N/A

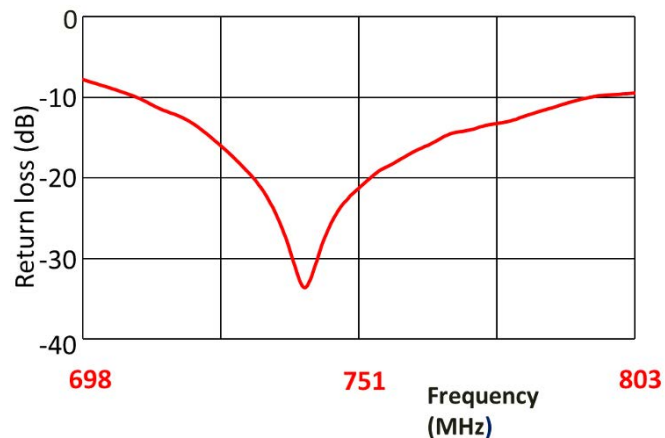
### RF DATA

(shown as L000576-01 : Ground size : 41 x 90 x 1.6 mm).

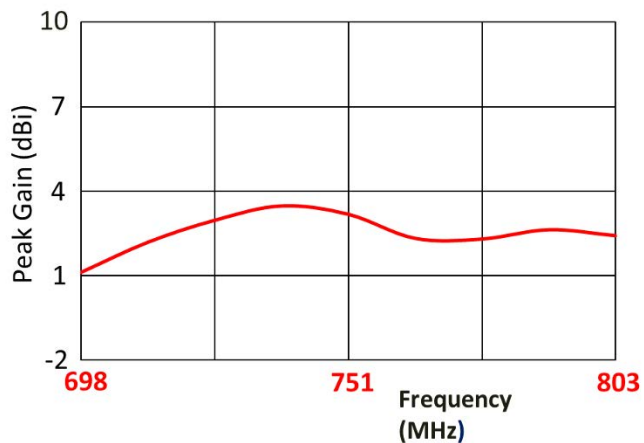
#### VSWR



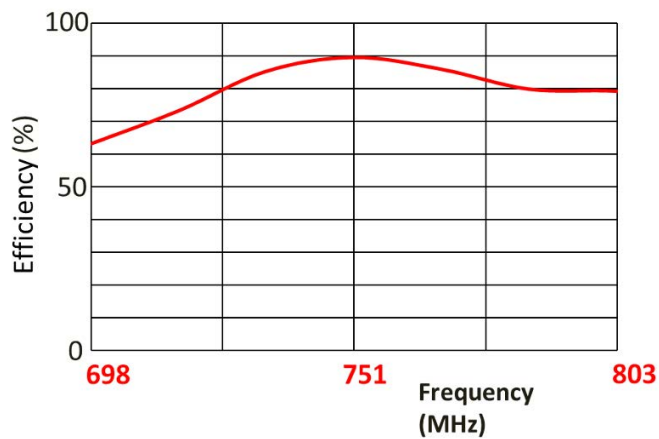
#### Return Loss



#### Peak Gain



#### Efficiency

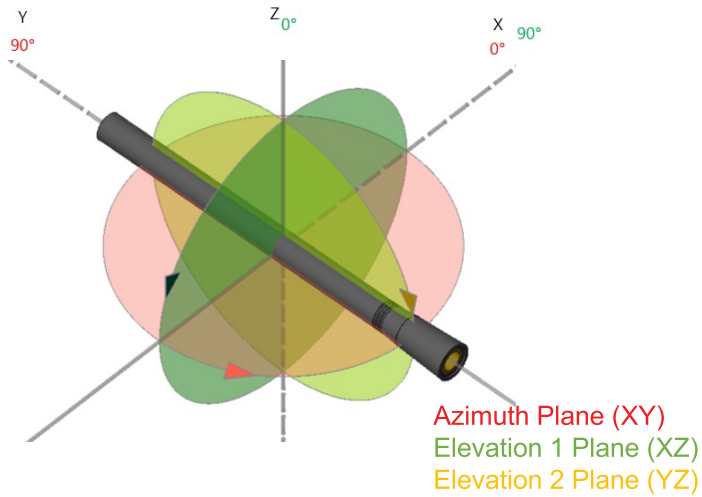


Data measured in free space and on reference ground plane of 41 x 90 x 1.6 mm ground plane condition, application data might vary.

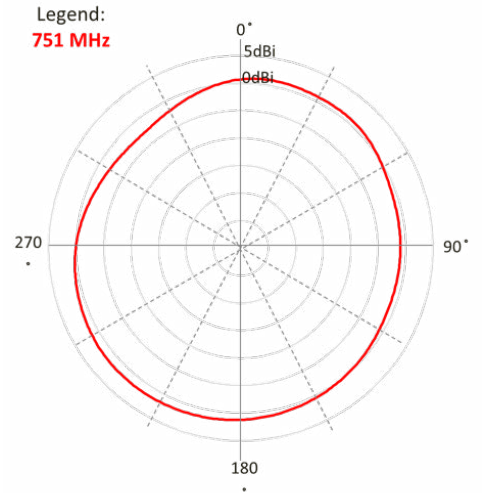
## RADIATION PATTERN

(shown as L000576-01 : Ground size : 41 x 90 x 1.6 mm).

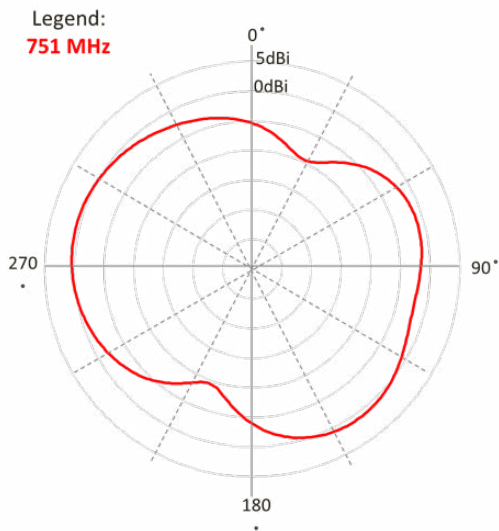
**Test setup**



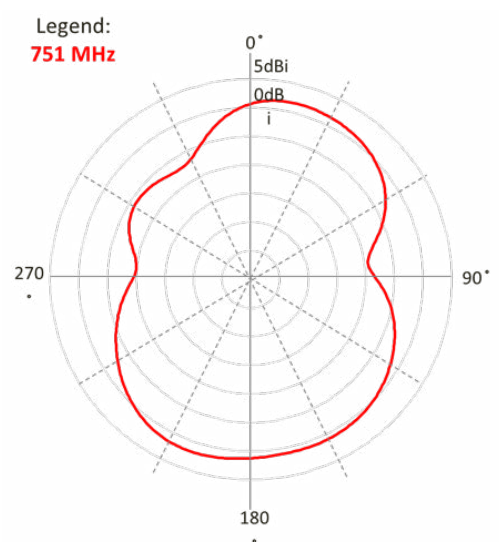
**Azimuth (XY)**



**Elevation 1(XZ)**



**Elevation 2(YZ)**

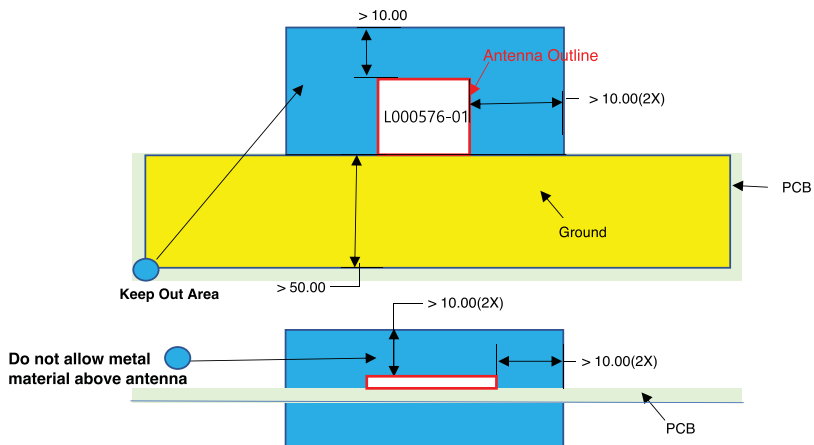


Data measured in free space and on reference ground plane of 41 x 90 x 1.6 mm ground plane condition, application data might vary.

## LTE BAND 28 COMPACT HELICAL CONNECTORIZED ANTENNA

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### KEEP OUT AREA



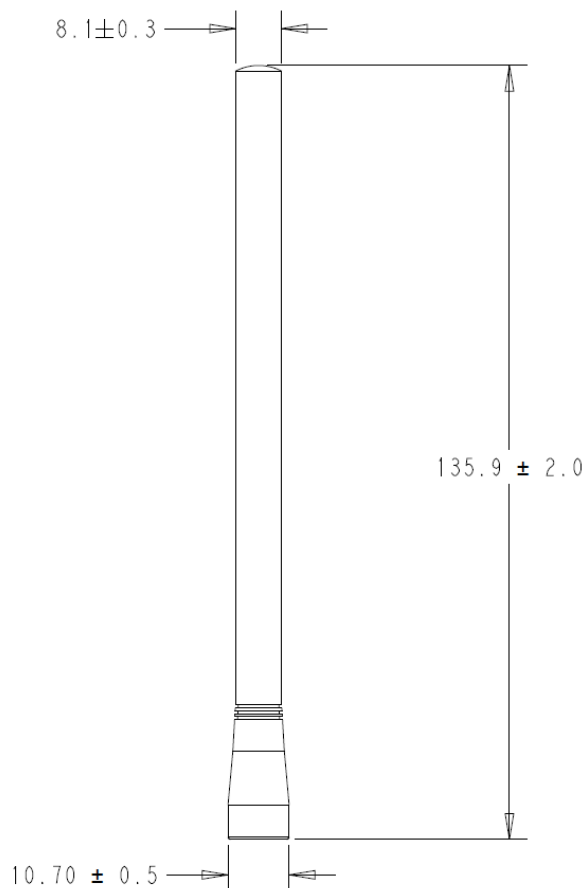
#### NOTES

1. Antenna designed to be connectorized with PCB SMA.
2. Area in blue indicates Keep Out Area.
3. For more information please call TE.

Dimension: mm

Diagram is not to scale

### DIMENSIONS



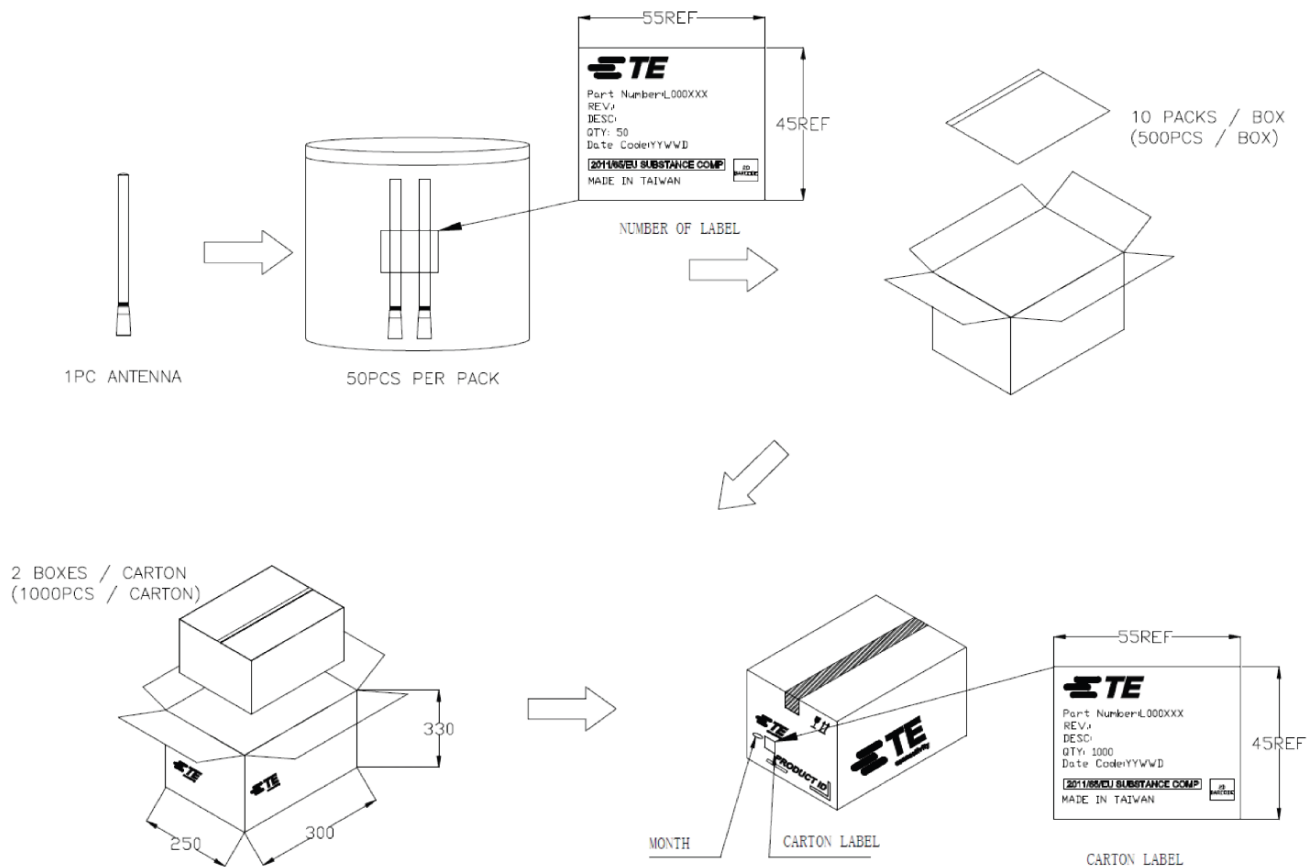
Dimension: mm

Diagram is not to scale

## LTE BAND 28 COMPACT HELICAL CONNECTORIZED ANTENNA

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