



# CERAMIC PATCH ANTENNA, 2400 -2500MHz, SMD, 12X12X4MM

Part Numbers:

L000697-01

L000697-80

## FEATURES

- 2400-2500MHz WiFi / BLE
- SMD Passive Ceramic Patch Antenna; Light weight, high efficiency/peak gain
- The following data is based on 50 x 50 x 1mm ground size
- No matching circuits required for evaluation board

## RF SPECIFICATIONS

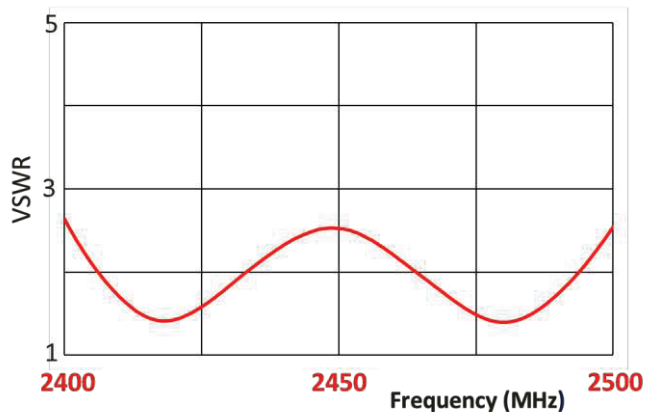
|                         |                               |
|-------------------------|-------------------------------|
| Frequency Range (MHz)   | 2400-2500                     |
| Bandwidth (MHz)         | ±1.023                        |
| VSWR (center frequency) | <2.7:1                        |
| Peak Gain at Zenith     | Typ. 4.2 dBi                  |
| Average Gain            | -1.2 dBi                      |
| Efficiency (%)          | 75%                           |
| Feed Point Impedance    | 50 ohms                       |
| Polarization            | Right Hand Polarization (RHP) |

## MECHANICAL SPECIFICATIONS

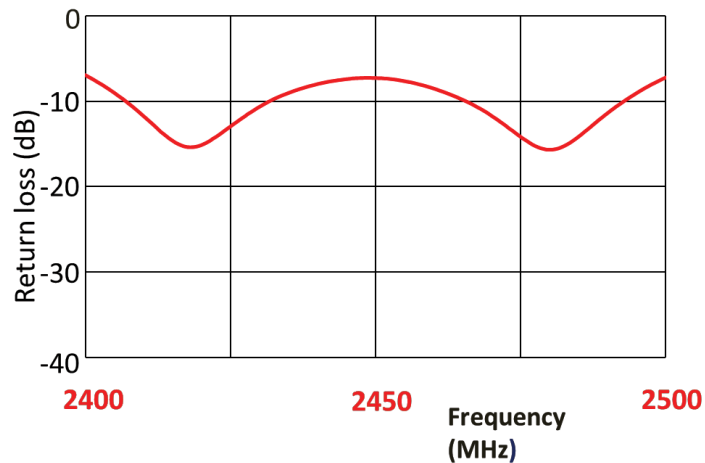
|                       |                                                                                |
|-----------------------|--------------------------------------------------------------------------------|
| Size ( L x W x H )    | 12.0 mm x 12.0 mm x 4.0 mm ( L/W/H ± 0.2)                                      |
| Weight                | < 4 g                                                                          |
| Mounting              | SMD (Surface Mount Device)                                                     |
| Mating Connector      | N/A                                                                            |
| Cable                 | N/A                                                                            |
| Operating Temperature | -40 to +105°C                                                                  |
| Storage Temperature   | -40 to +105°C                                                                  |
| Dielectric Material   | Ceramic                                                                        |
| Hazardous Materials   | A certificate of conformance is available from the product page on TE website. |

RF DATA (SHOWN AS L000697-01 : GROUND SIZE : 50 X 50 X 1 MM.)

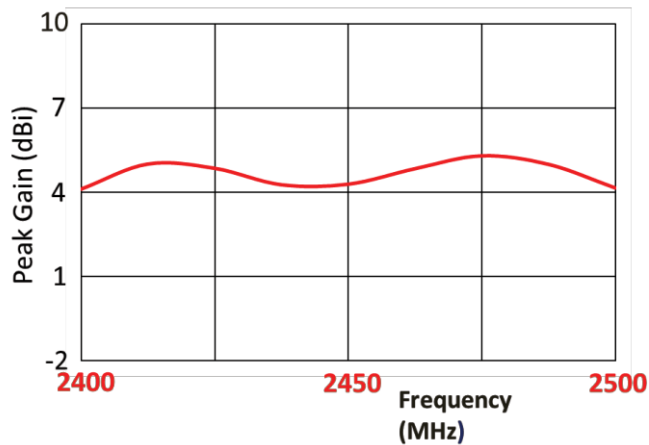
VSWR



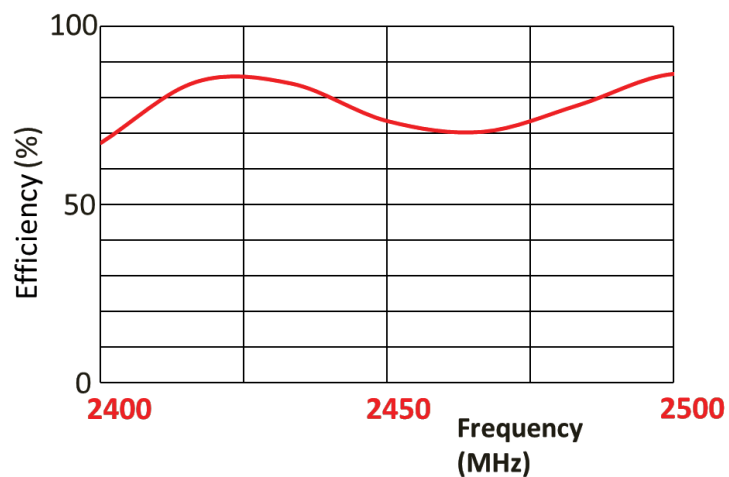
Return Loss



Peak Gain



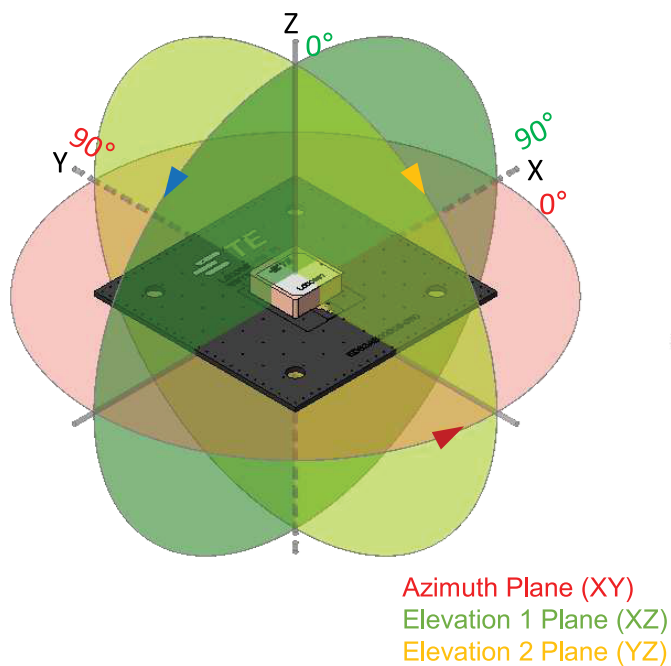
Efficiency



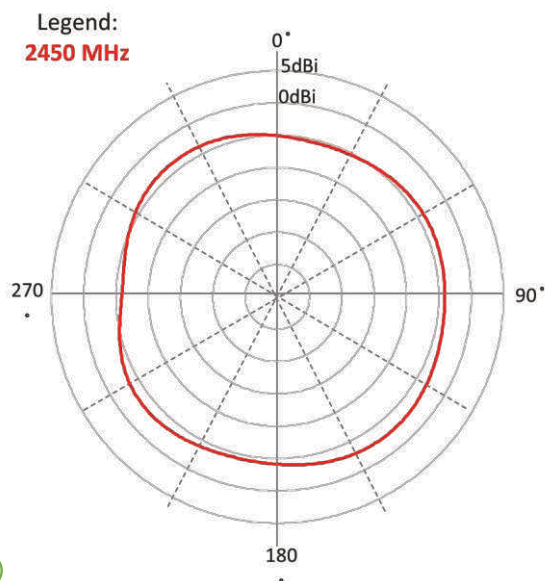
Data measured in free space and on reference ground plane of 50x50x1 mm ground plane condition, application data might vary.

**RADIATION PATTERN (SHOWN AS L000697-01 : GROUND SIZE : 50 X 50 X 1 MM.)**

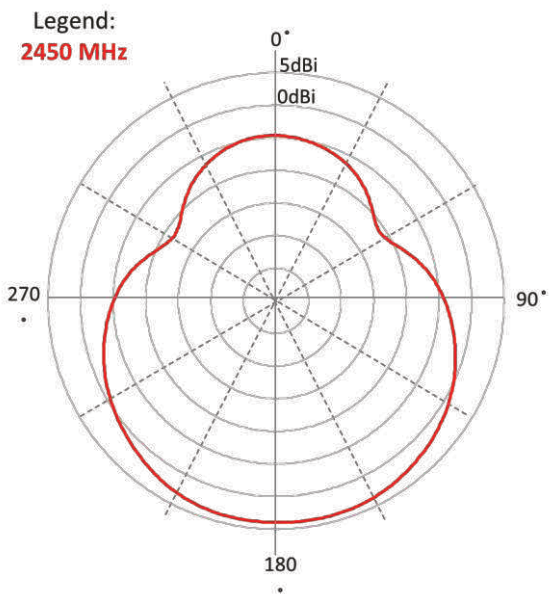
Test setup



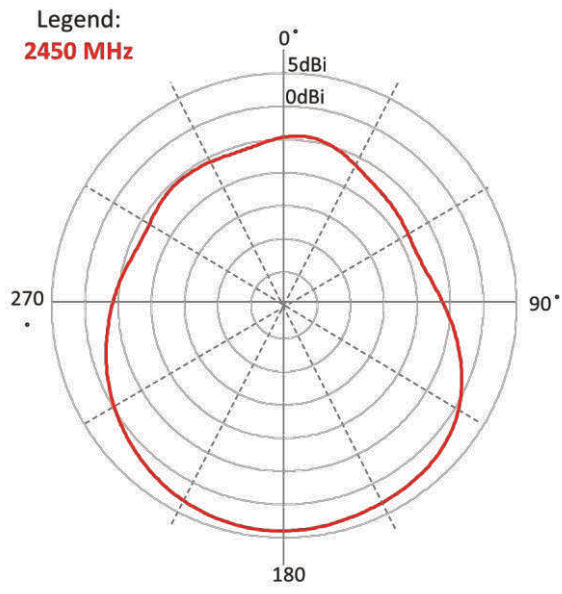
Azimuth (XY)



Elevation 1(XZ)

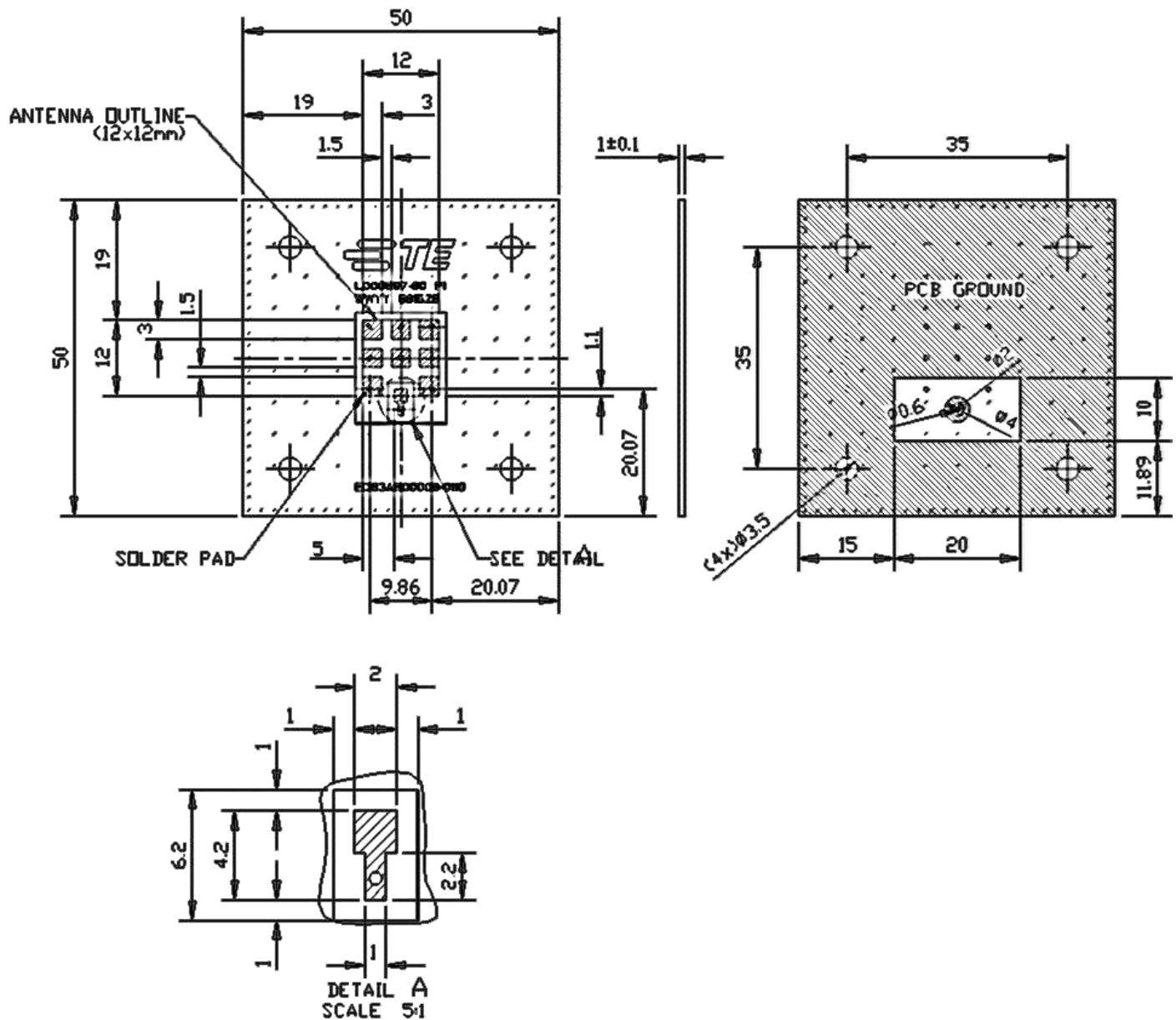


Elevation 2 (YZ)



Data measured in free space and on reference ground plane of 50x50x1 mm ground plane condition, application data might vary.

## MOUNTING GUIDE



NOTES: 1. Antenna must be mounted on the edge of PCB.

2. For more information please call TE.

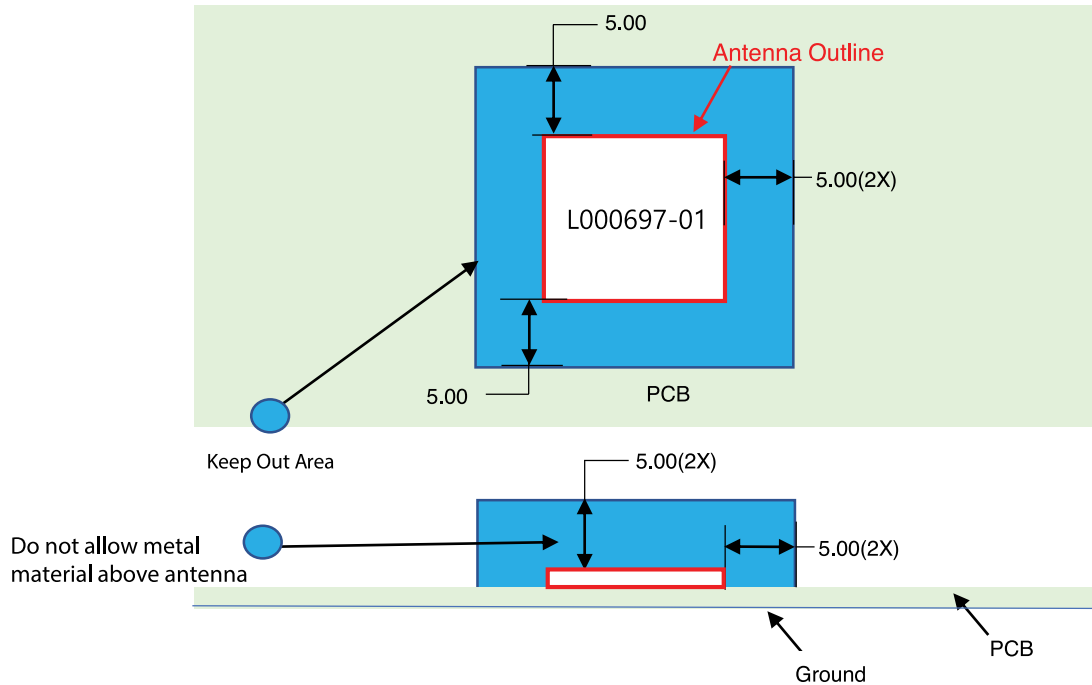
3. Reference PCB Dimension(mm) - 50.0 x 50.0 x 1.0

Dimension: mm

Tolerance : ±0.2mm

Diagrams is not to scale

## KEEP OUT AREA



NOTES:1. Antenna designed to be mounted on PCB.

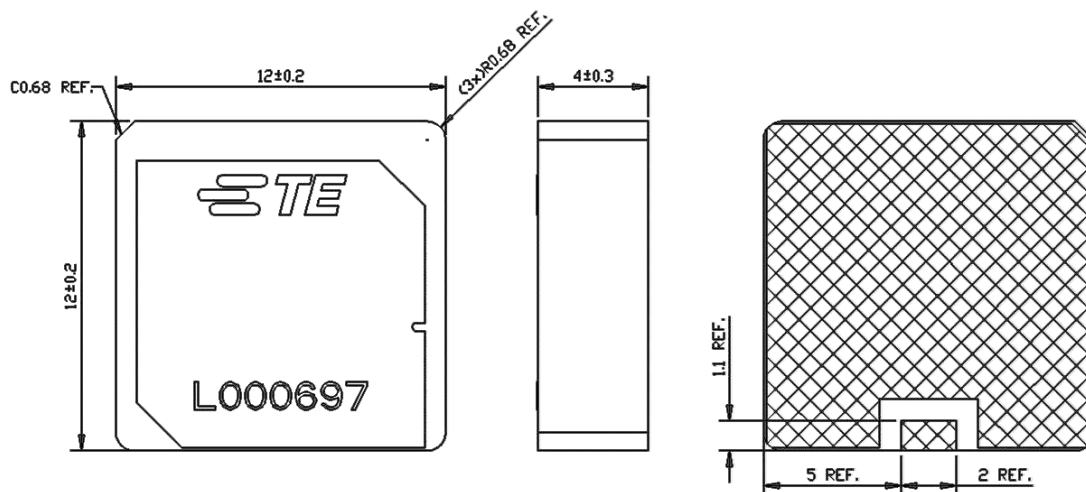
2. Area in blue above indicates Keep Out Area.

3. For more information please call TE.

Dimensions: mm

Diagram is not to scale

## DIMENSIONS

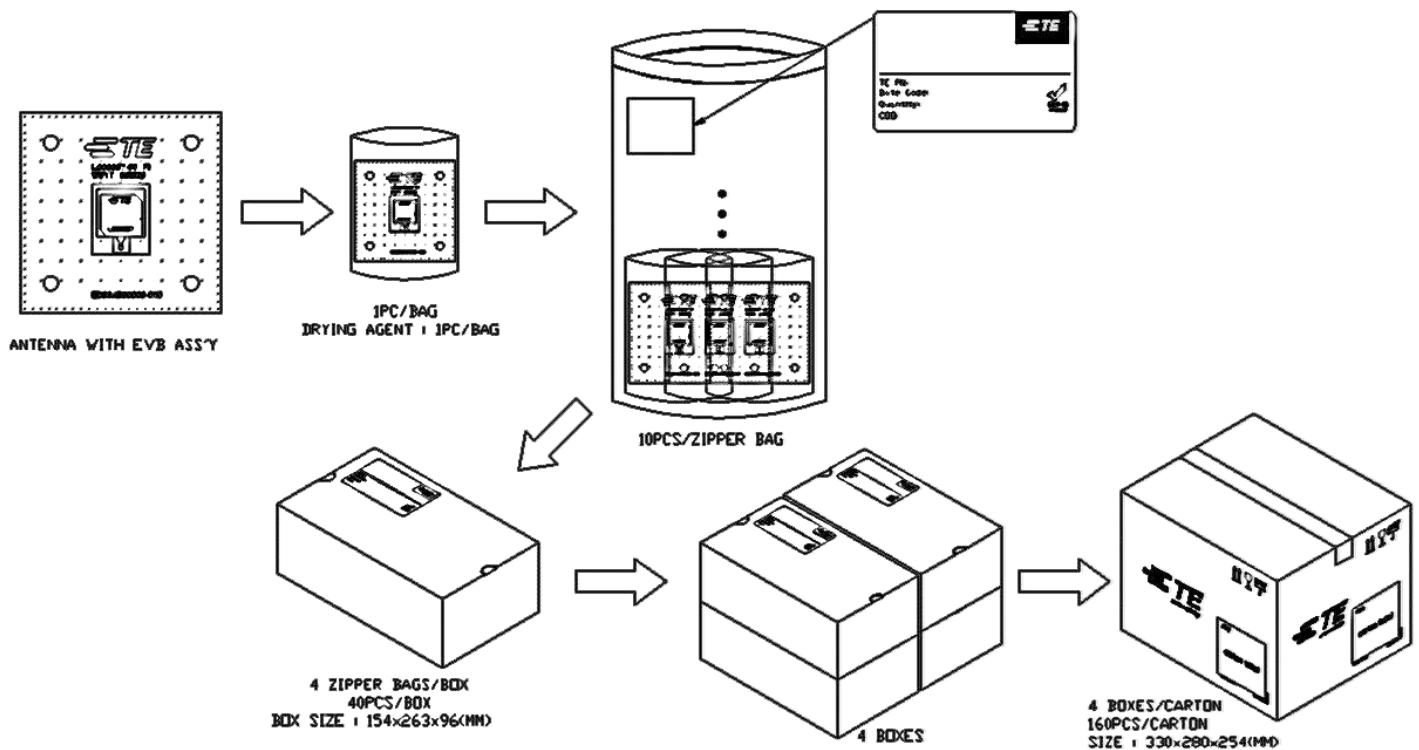


Dimensions: mm

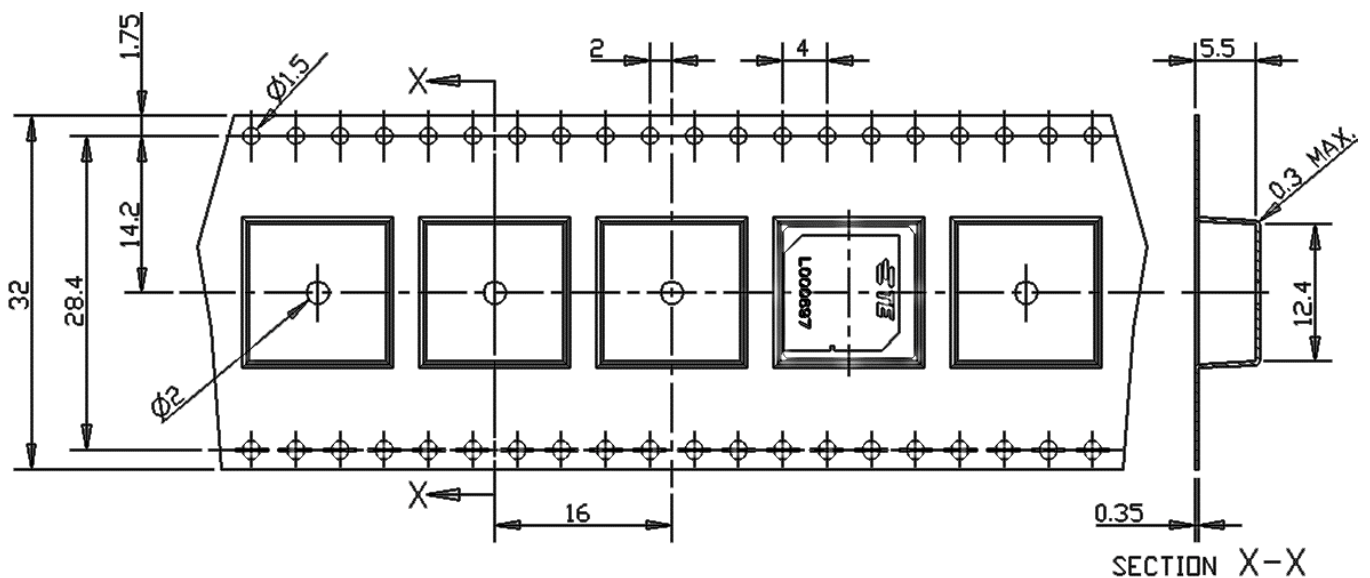
Diagram is not to scale

## PACKAGING

### L000697-80 (BULK)



### L000697-01 (REEL)



## CERAMIC PATCH ANTENNA, 2400-2500MHz, SMD, 12X12X4MM

Standard Antenna Solutions

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