

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

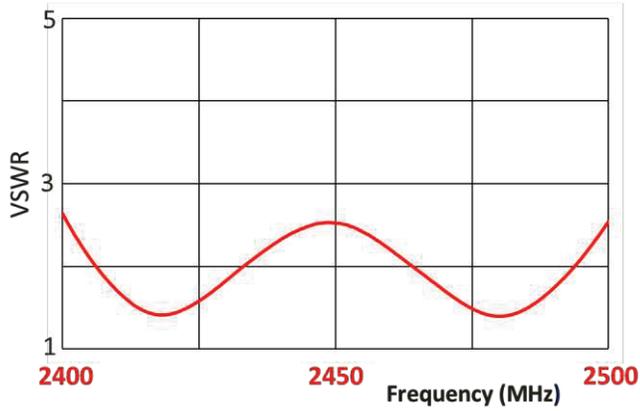
Frequency Range (MHz)	2400-2500
Bandwidth (MHz)	±1.023
VSWR (center frequency)	<2.7:1
Peak Gain at Zenith	Typ. 4.2 dBi
Average Gain	-1.2 dBi
Efficiency (%)	75%
Feed Point Impedance	50 ohms
Polarization	Right Hand Polarization (RHP)

MECHANICAL SPECIFICATIONS

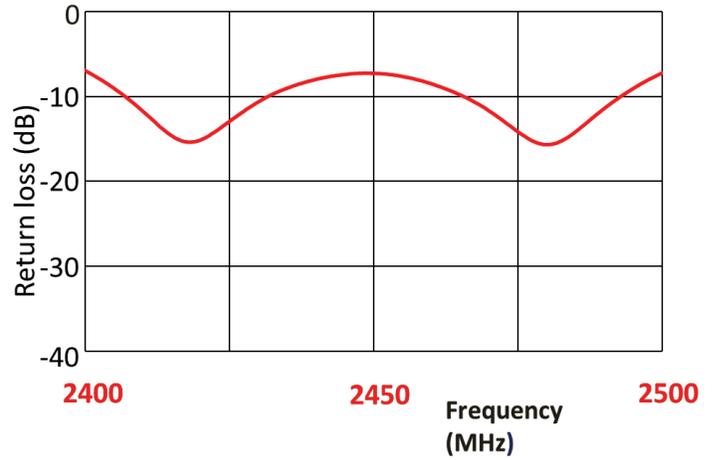
Size (L x W x H)	12.0 mm x 12.0 mm x 4.0 mm (L/W/H ± 0.2)
Weight	< 4 g
Mounting	SMD (Surface Mount Device)
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to +105°C
Storage Temperature	-40 to +105°C
Dielectric Material	Ceramic
Hazardous Materials	A certificate of conformance is available from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

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

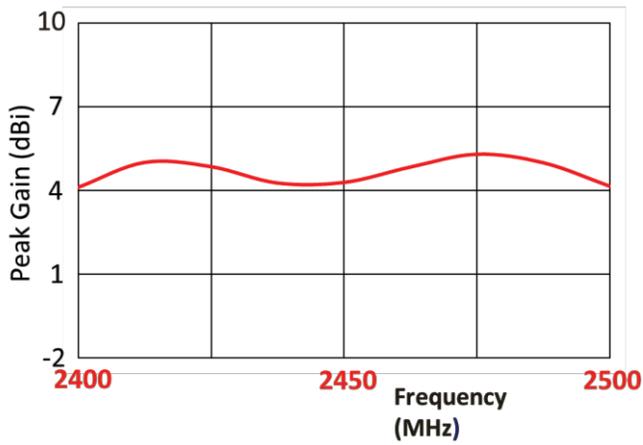
VSWR



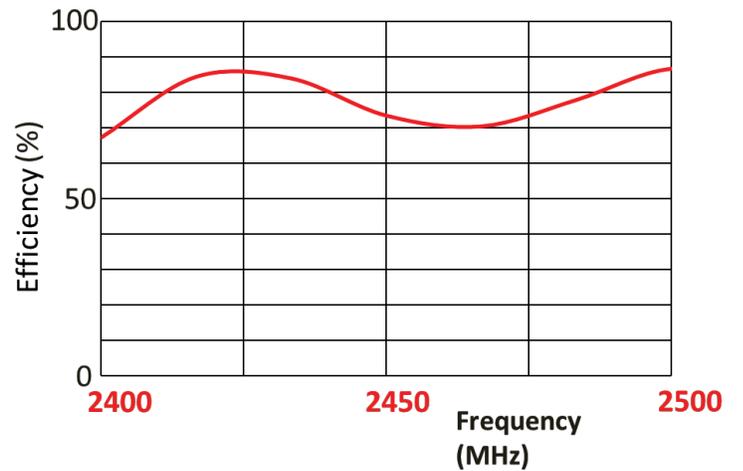
Return Loss



Peak Gain



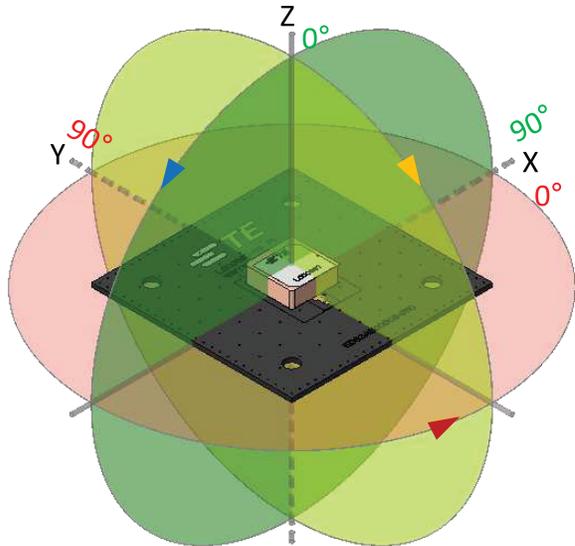
Efficiency



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

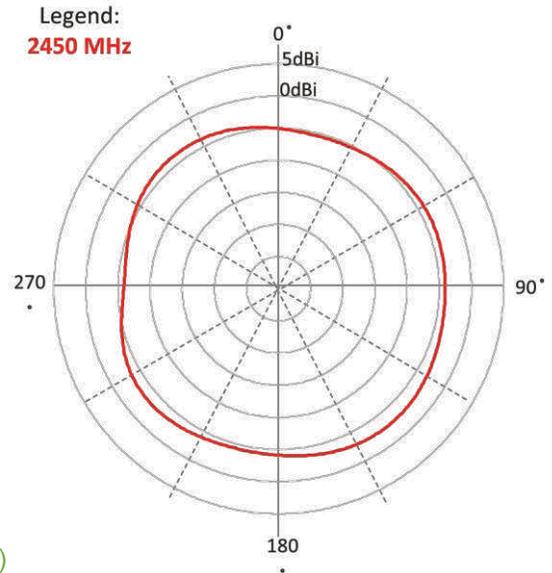
RADIATION PATTERN (SHOWN AS L000697-01 : GROUND SIZE : 50 X 50 X 1 MM.)

Test setup

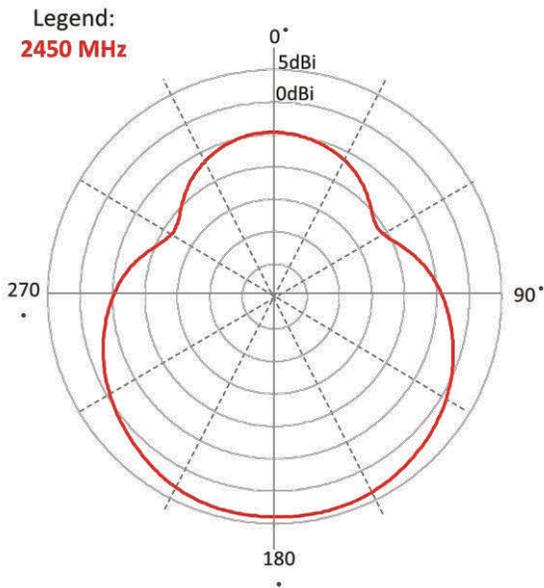


Azimuth Plane (XY)
Elevation 1 Plane (XZ)
Elevation 2 Plane (YZ)

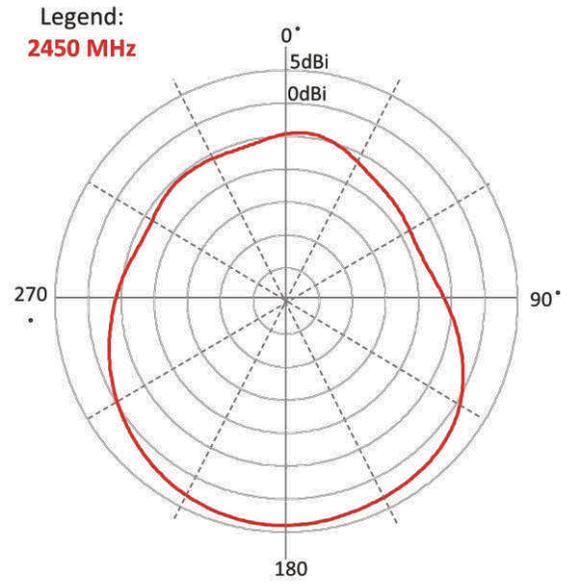
Azimuth (XY)



Elevation 1(XZ)

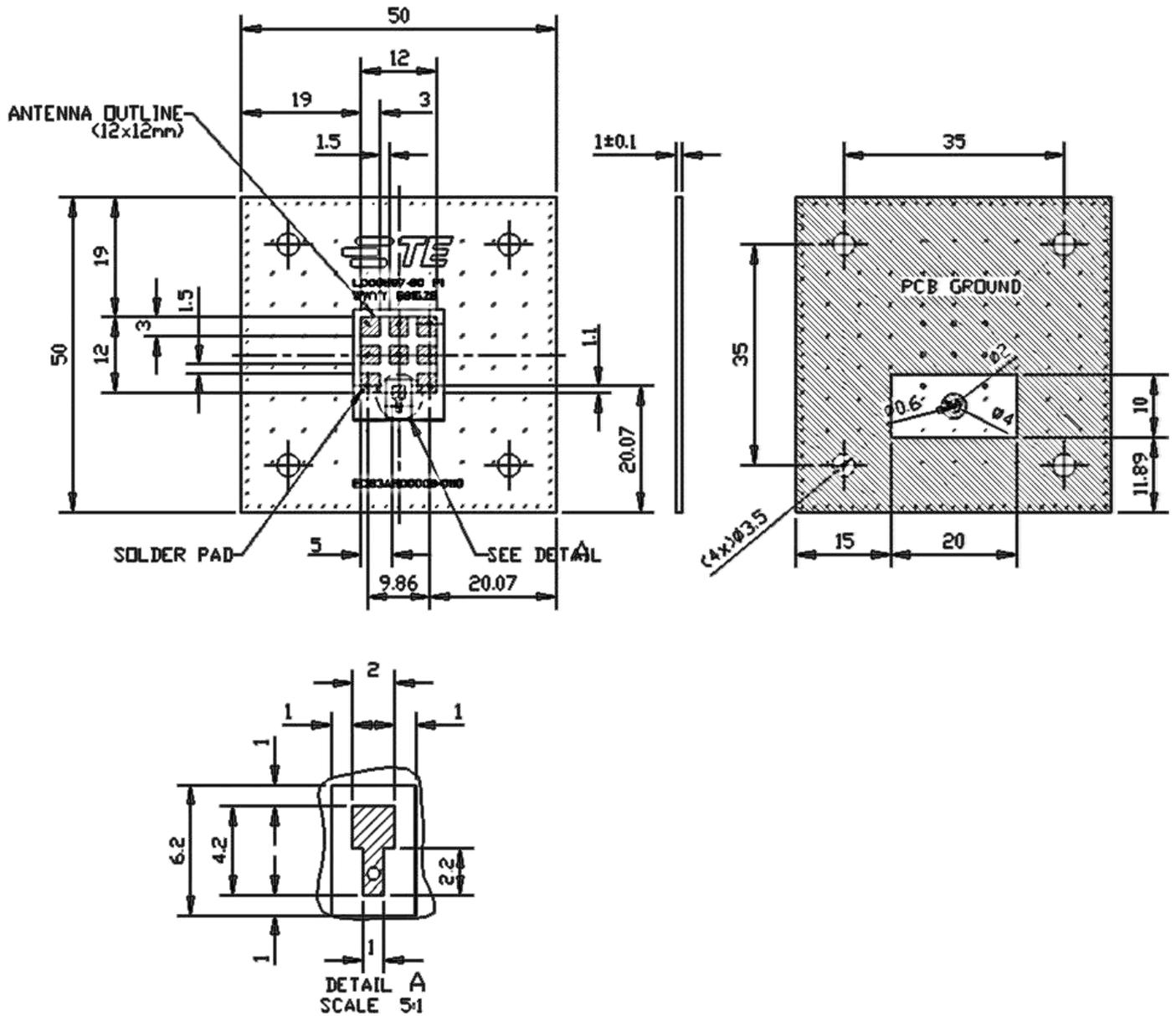


Elevation 2 (YZ)



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

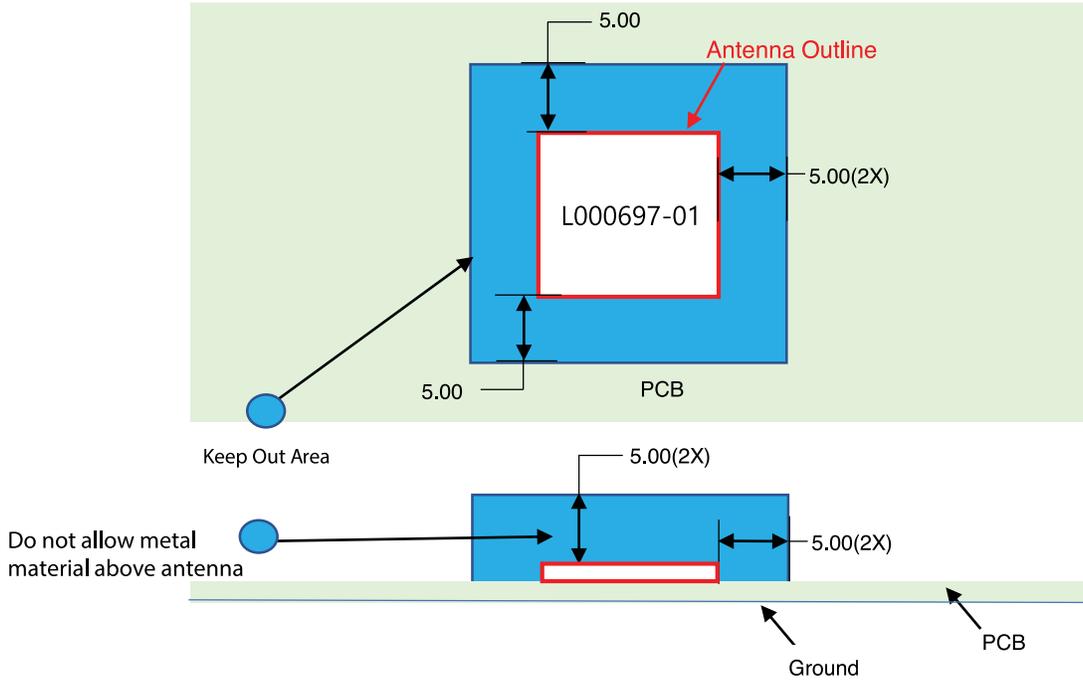
MOUNTING GUIDE



- 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

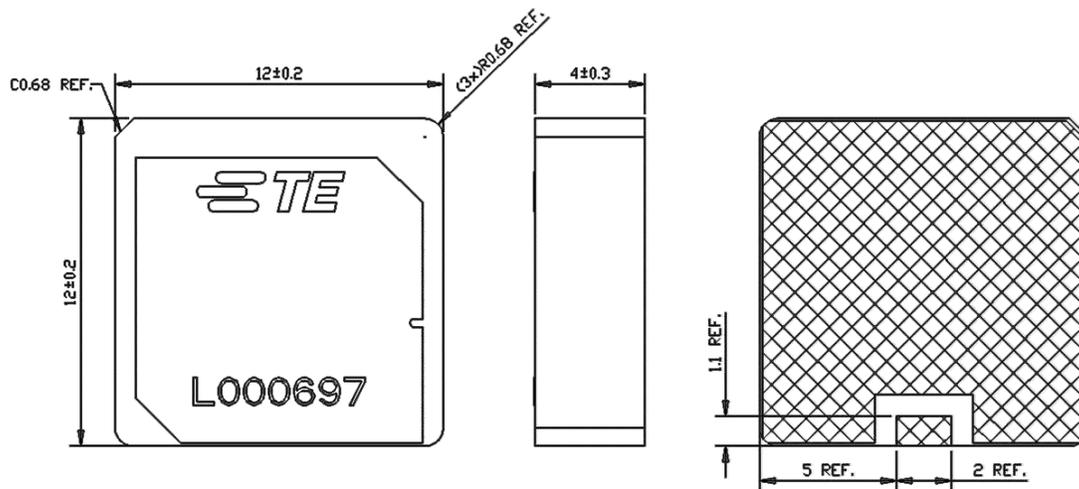
KEEP OUT AREA



- 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

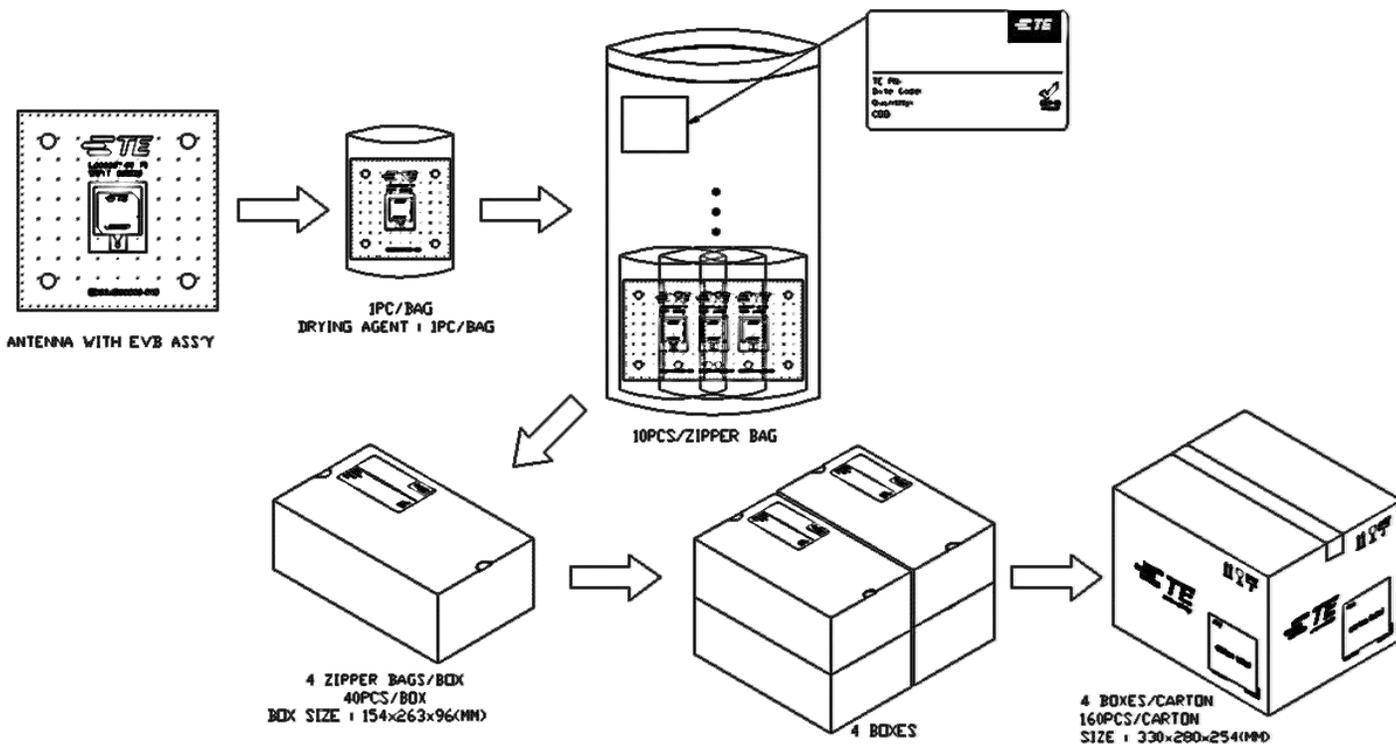
DIMENSIONS



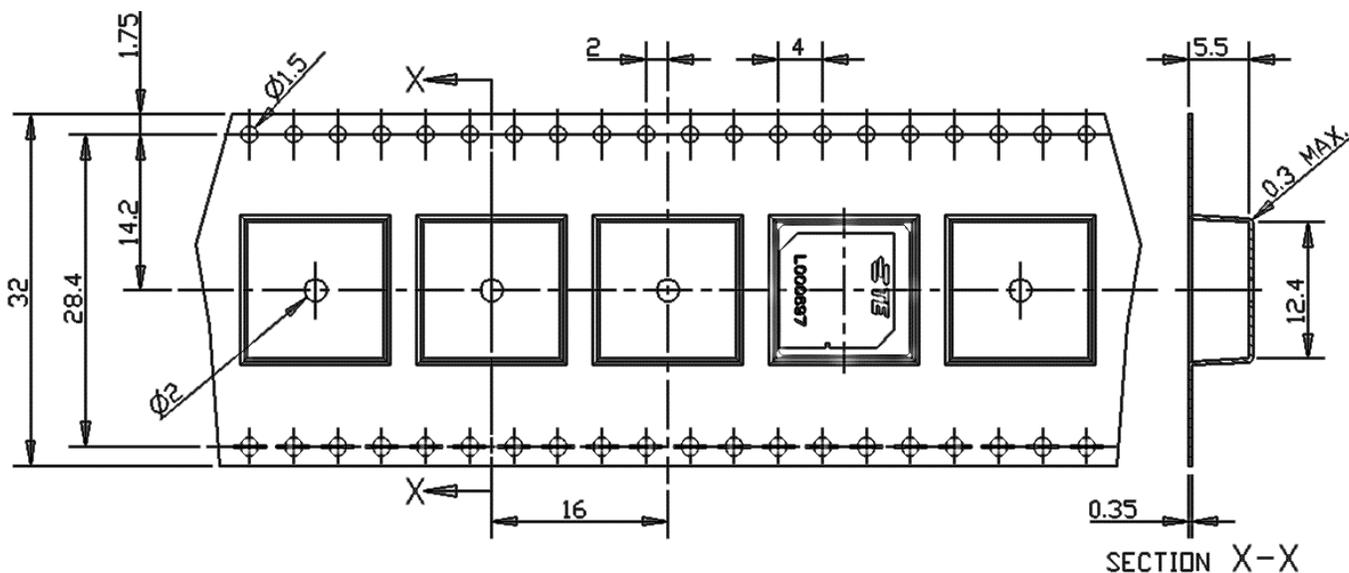
Dimensions: mm
Diagram is not to scale

PACKAGING

L000697-80 (BULK)



L000697-01 (REEL)



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Standard Antenna Solutions

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Germany: +49 (0) 6251-133-1999

UK: +44 (0) 800-267666

France: +33 (0) 1-3420-8686

Netherlands: +31 (0) 73-6246-999

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