



SPLATCH 5G/LTE GLOBAL CELLULAR WIDEBAND CHIP ANTENNA 617-5000MHz

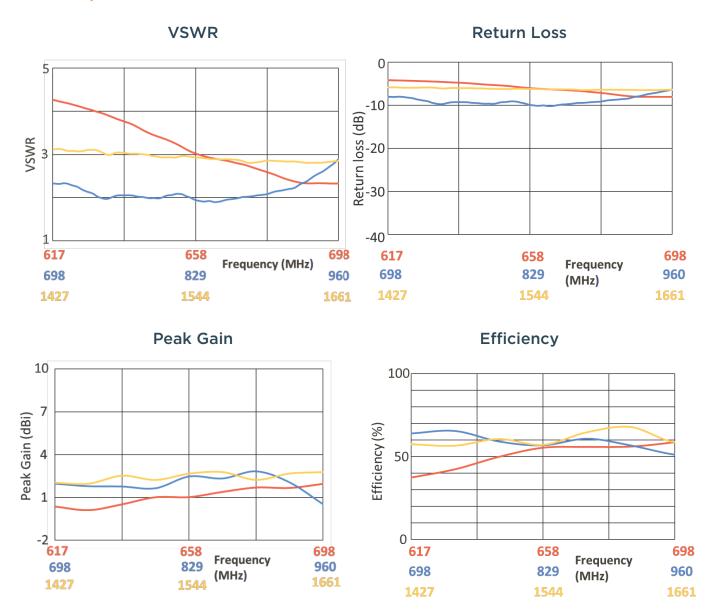
Part Numbers: L000657-01 L000657-80

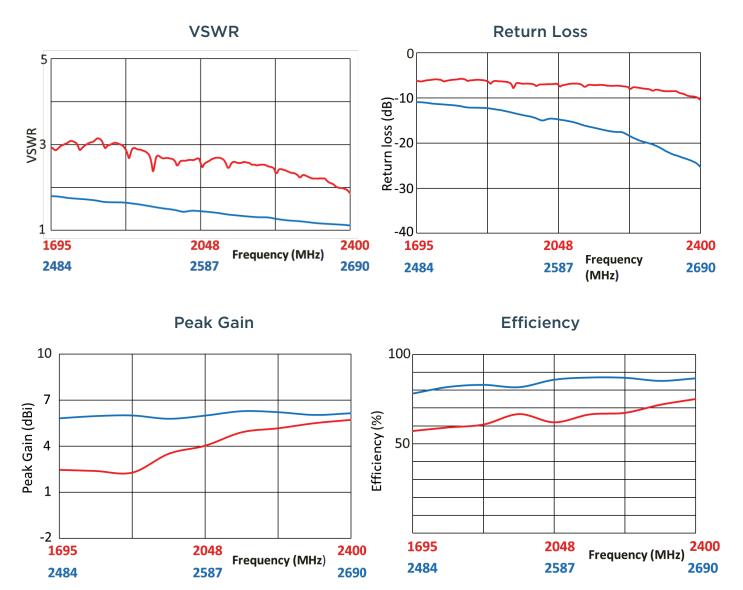
FEATURES & BENEFITS

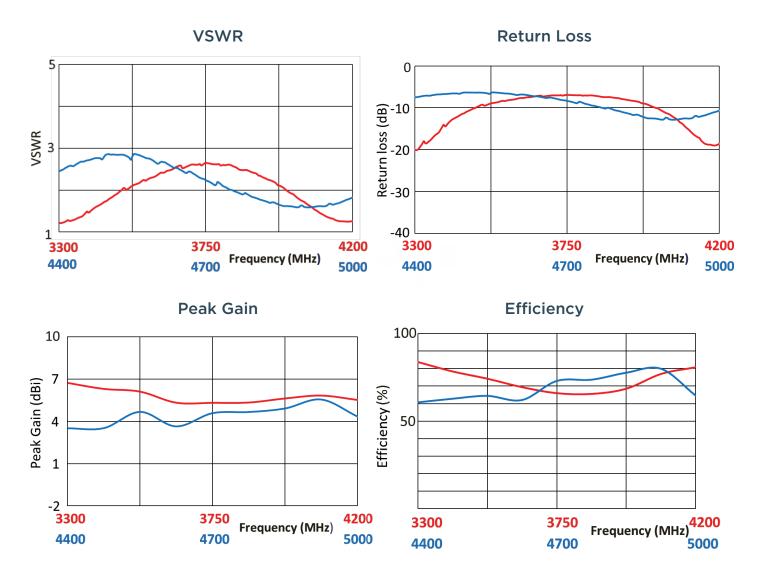
- Omnidirectional coverage
- High efficiency, low profile, on board SMD PCB antenna
- Wideband coverage for 3G, 4G and 5G FR1
- Evaluation board available for testing (L000657-80)
- Bandwidth and performance dependent on ground plane size/ design
- Suggested minimum ground plane length from antenna feed is 150mm
- · Available in tape & reel packaging for automatic mounting
- RoHS 2.0 compliant, Road vehicle compliant, REACH compliant

SPECIFICATIONS

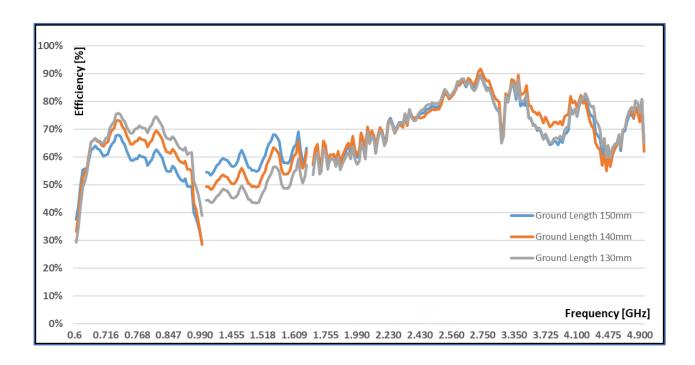
Frequency Range (MHz)	617-698	698-960	1427-1661	1695-2400	2484-2690	3300-4200	4400-5000
VSWR	< 4.3:1	< 2.9:1	< 3.2:1	< 3.2:1	< 1.8:1	< 2.7:1	< 2.9:1
Average Efficiency	53.50%	56.00%	61.00%	65.10%	83.50%	73.60%	68.80%
Peak Gain	1.0dBi	2.4dBi	2.6dBi	4.0dBi	5.9dBi	5.3dBi	4.5dBi
Average Gain	-2.77dBi	-2.56dBi	-2.15dBi	-1.87dBi	-0.76dBi	-1.33dBi	-1.64dBi
Power Handling	5 Watt cw						
Feed Point Impedance	50 ohms unbalanced						
Polarization	Linear						
Size	50.0 mm x 10.0 mm x 1.61 mm						
Weight	< 1.5 g						
Mounting	Surface mount						
Operating Temperature	-40 to +85°C						
Storage Temperature	-40 to +85°C						
Packaging Specification	Bag & Box / Tape & Reel						
Hazardous Materials	A certificate of conformance is available from the product page on TE website.						

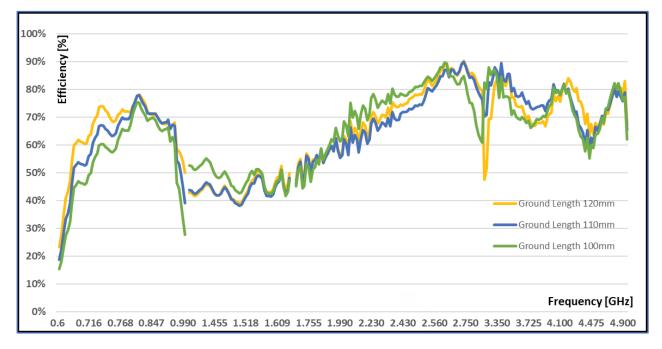




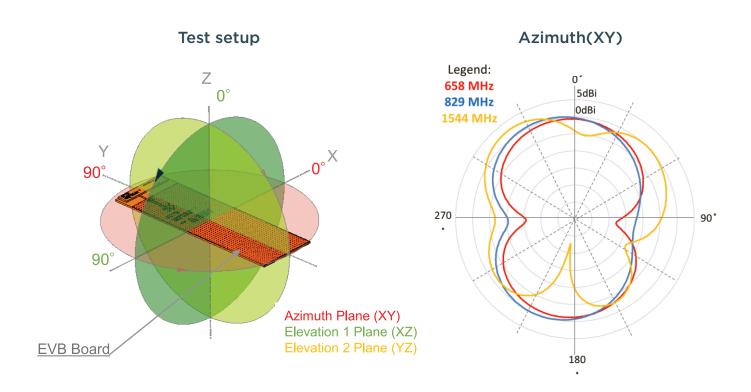


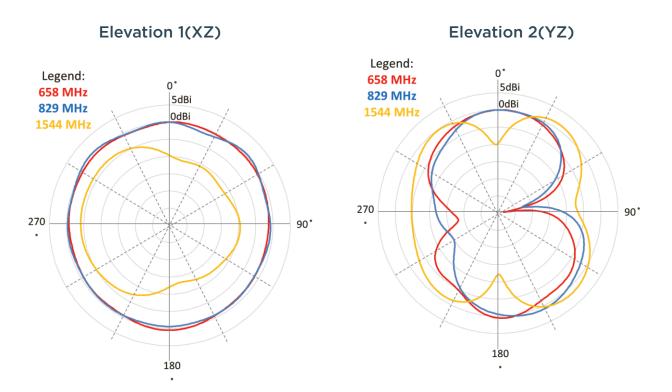
Efficiency vs. Ground Length size



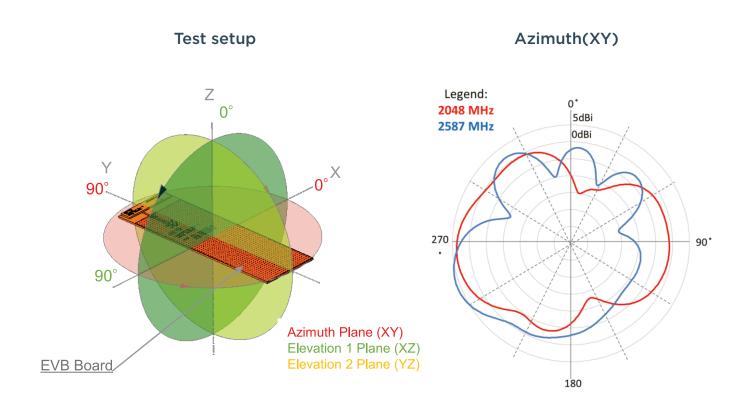


RADIATION PATTERN



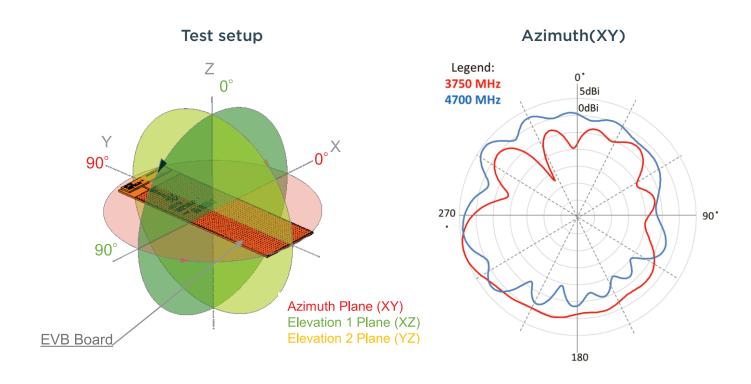


RADIATION PATTERN

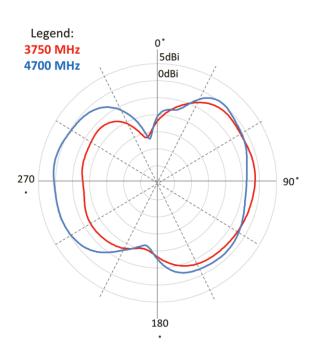


Elevation 2(YZ) **Elevation 1(XZ)** Legend: Legend: 0° 0° 2048 MHz 2048 MHz 5dBi 5dBi 2587 MHz 2587 MHz 0dBi 0dBi 270 90° 270 90° 180 180

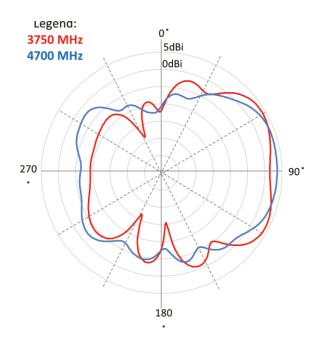
RADIATION PATTERN



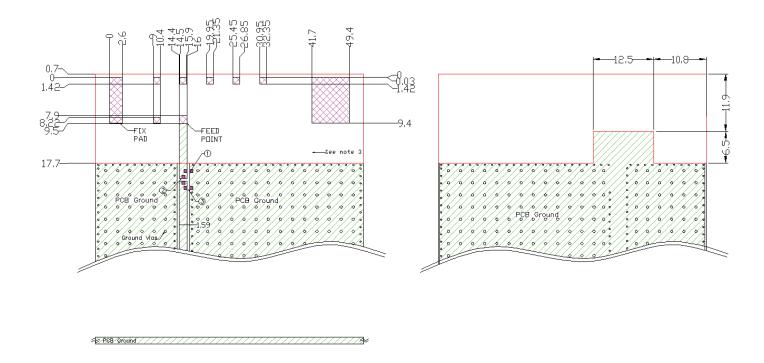




Elevation 2(YZ)



MOUNTING GUIDE

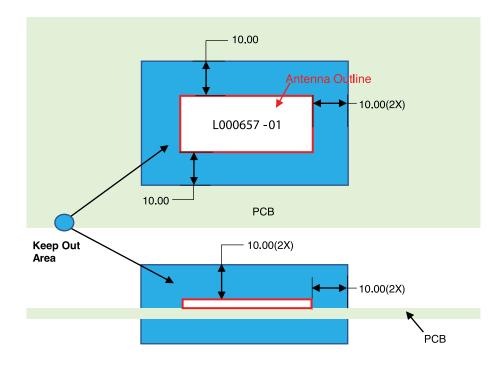


NOTES: 1. Antenna must be mounted on the edge of PCB.

- 2. NC = Non connection (mechanical mounting pads).
- 3. No copper allowed in designated area on all PCB layers -
- 4. For more information please call TE.
- 5. Measured with below matching circuit condition.
 - 1 NC ,20 ohm,315nH
- 6. Reference PCB Dimension(mm) 55.2 x 168.6 x 1.6

Dimensions: mm Diagram is not to scale

KEEP OUT AREA

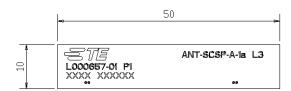


NOTES:1. Antenna designed to be mounted on PCB.

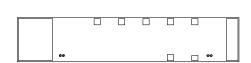
- 2. Area in blue above indicates Keep Out Area.
- 3. For more information please call TE.

Dimensions: mm Diagram is not to scale

DIMENSIONS

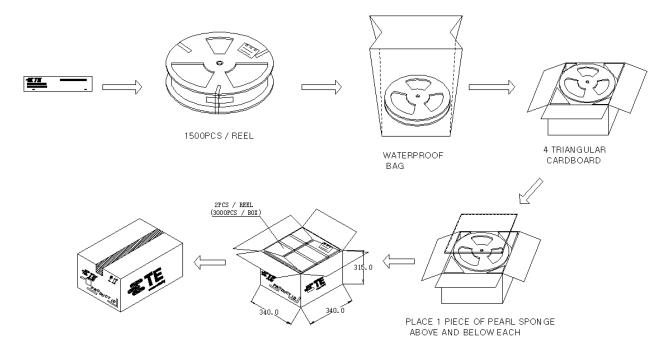




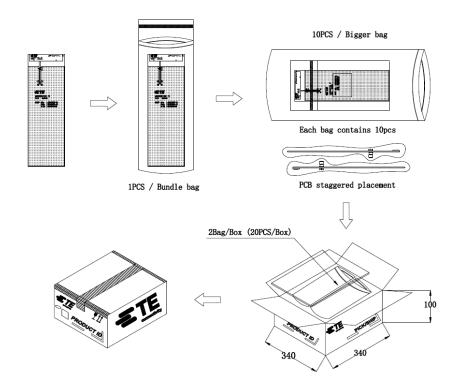


PACKAGING

L000657-01 PCB Antenna (TAPE & REEL)



L000657-80 Evaluation Bord Assembly (BULK)



TE TECHNICAL SUPPORT CENTER

USA: +1 (800) 522-6752

Canada: +1 (905) 475-6222

Mexico: +52 (0) 55-1106-0800

Latin/S. America: +54 (0) 11-4733-2200

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

UK: +44 (0) 800-267666

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

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