

3500 – 8500 MHz UWB EMBEDDED CHIP ANTENNA

Part Numbers: L000801-01 L000801-80

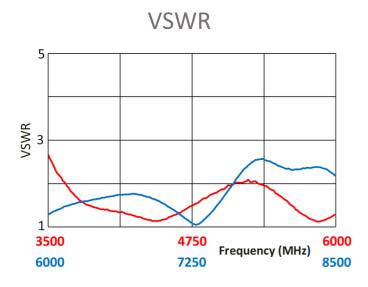
FEATURES & BENEFITS

- UWB channel 1,2,3,4,5,6,7,8,9
- On board SMD PCB antenna
- Bandwidth and performance dependent on ground plane size/ design suggested minimum ground plane length from antenna feed is 64mm

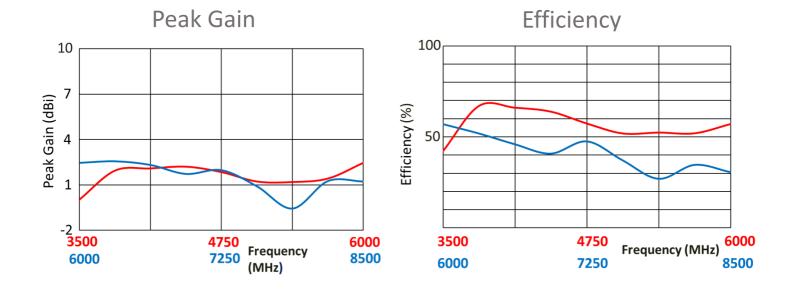
SPECIFICATIONS

| Frequency Range (MHz) | 3500-6000 | 6000-8500 |
|--|--|-----------|
| VSWR | < 3.5:1 | < 3.5:1 |
| Average Efficiency | 56 % | 41 % |
| Peak Gain | 1.8 dBi | 1.9 dBi |
| Average Gain | -2.6 dBi | -4.0 dBi |
| Power Handling | 10 Watt cw | |
| Feed Point Impedance | 50 ohms | |
| Polarization | Linear | |
| Size (L x W x H) | 8.0 mm x 6.0 mm x 0.5 mm (L/W± 0.3mm ; H± 0.15mm) | |
| Weight | < 1.5 g | |
| Mounting | Surface mount | |
| Operating Temperature | -40 to +85°C | |
| Storage Temperature | -5 to +40°C | |
| Packaging Specification | Bag & Box / Tape & Reel | |
| Hazardous Materials | A certificate of conformance is available from the product page on TE website. | |
| Data measured on reference ground plane of 64 mm ground length and 28 mm width, application data might vary. | | |

RF DATA (Shown as L000801-1 : Others can vary with different ground lengths.)



Return Loss

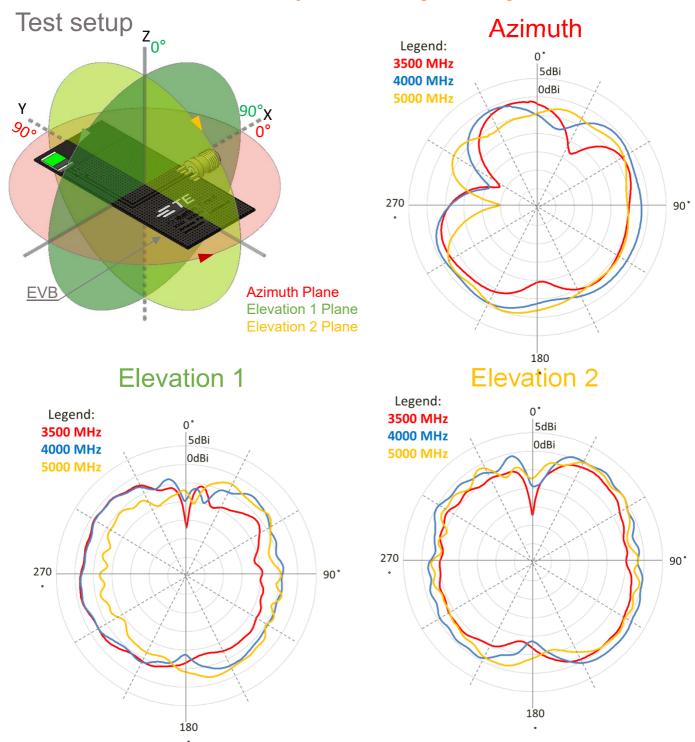


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RADIATION PATTERN

(Shown as L000801-1 : Others can vary with different ground lengths.)

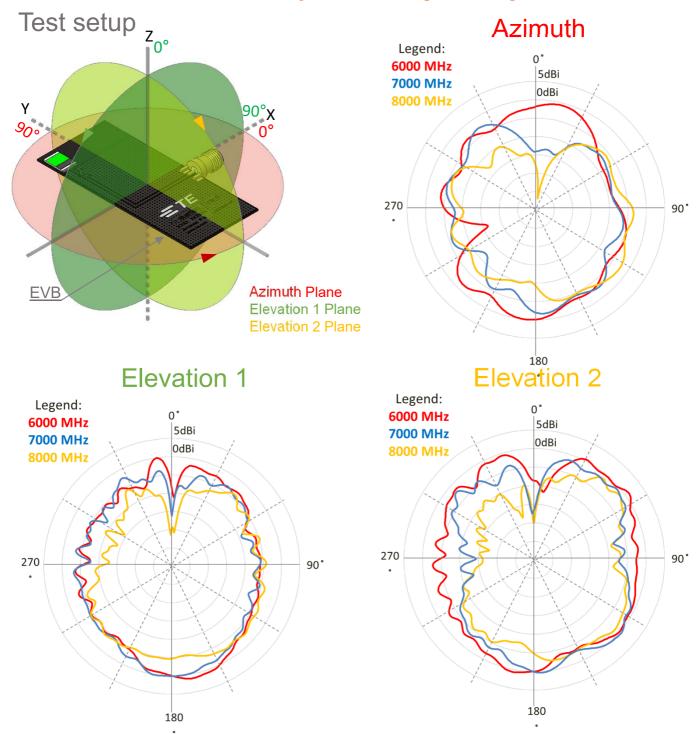


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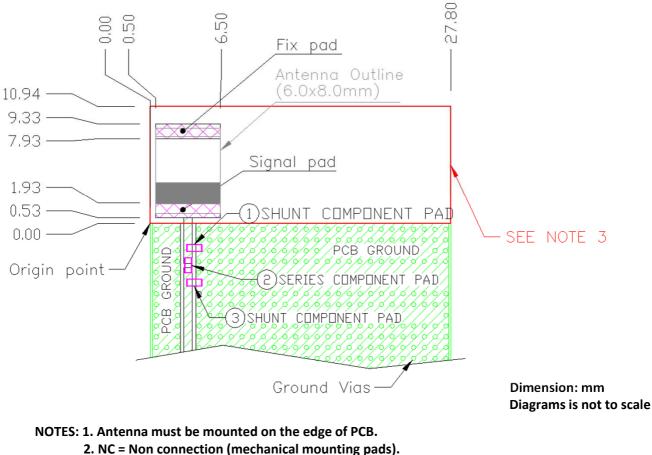


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MOUNTING GUIDE

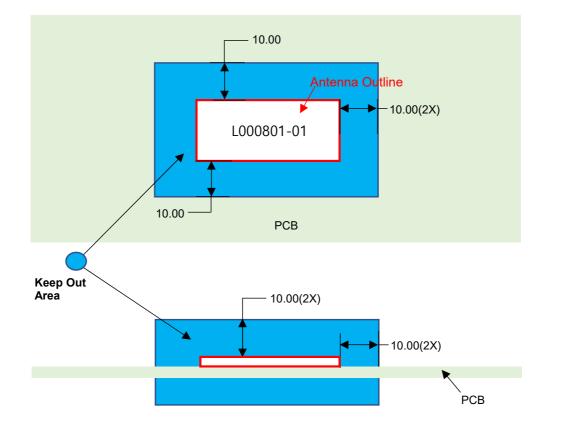
Top View



- 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. $\textcircled{\sc 1}NC$, $\textcircled{\sc 2}$ 0 ohm , $\textcircled{\sc 3}$ 0.2pF .
- 6. Reference PCB Dimension(mm) 28 x 64 x 0.78



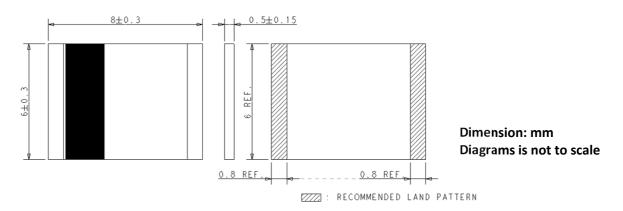
KEEP OUT AREA



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

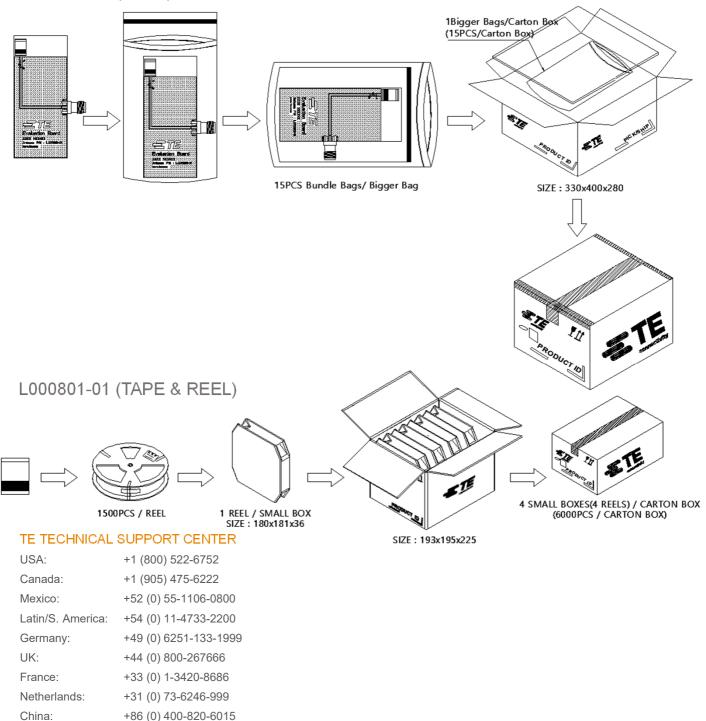


Standard Antenna Solutions



PACKAGING

L000801-80 (BULK)



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09/2023