

# UWB 5900-8300 MHz EMBEDDED CHIP ANTENNA

Part Numbers: 2108851-1

## FEATURES & BENEFITS

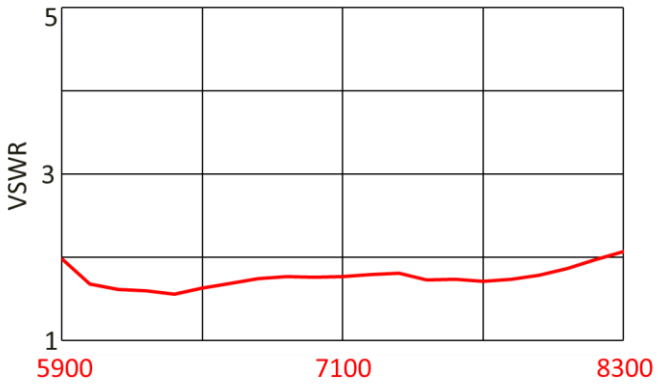
- UWB 5900-8300 MHz , Channel 5-9
- Embedded Ceramic Chip Antenna
- SMD assembly
- Available in tape & reel
- The following data is based on 20 x 24 mm ground size

## SPECIFICATIONS

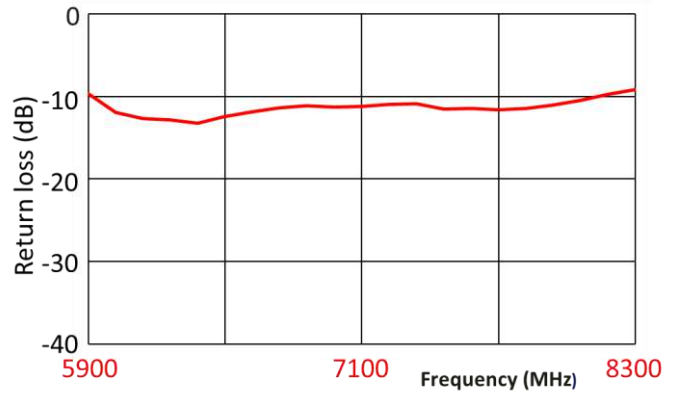
Frequency Range (MHz)	5900-8300
VSWR	< 2.1:1
Average Efficiency	74%
Peak Gain	4.1 dBi
Average Gain	-1.3dBi
Feed Point Impedance	50 ohms
Polarization	Linear
Size	4.0 mm x 2.0 mm x 1.2 mm
Weight	< 0.04 g
Mounting	SMD
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

## RF DATA

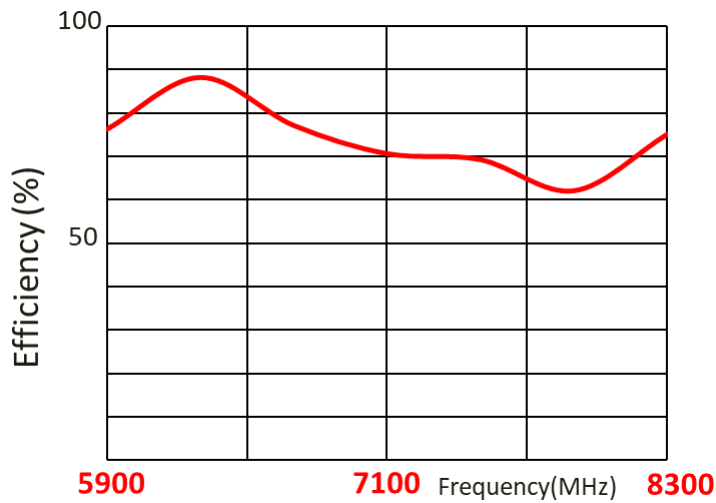
### VSWR



### Return Loss

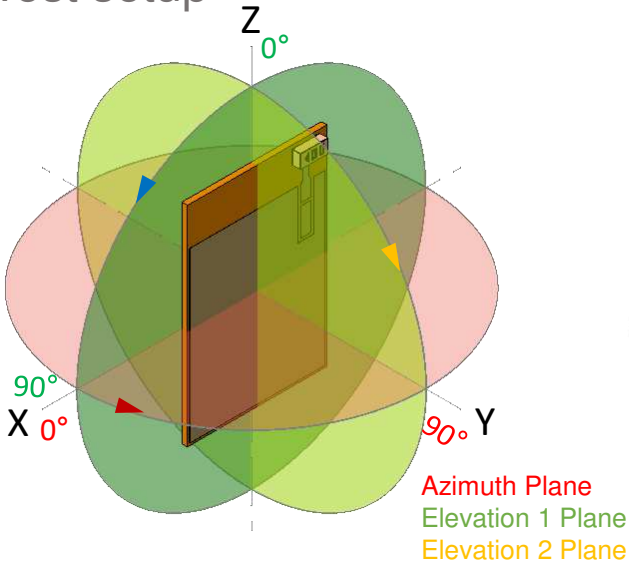


### Efficiency

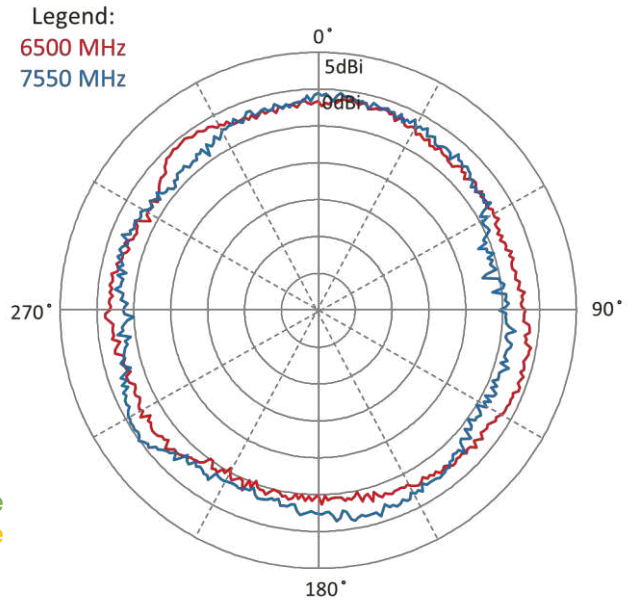


# RADIATION PATTERN

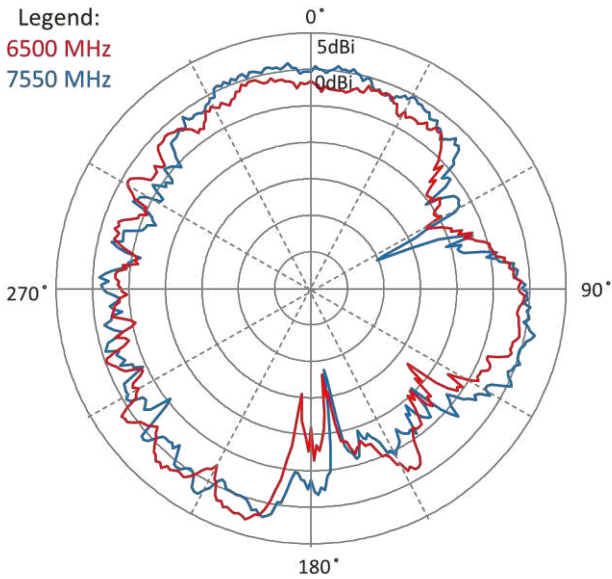
Test setup



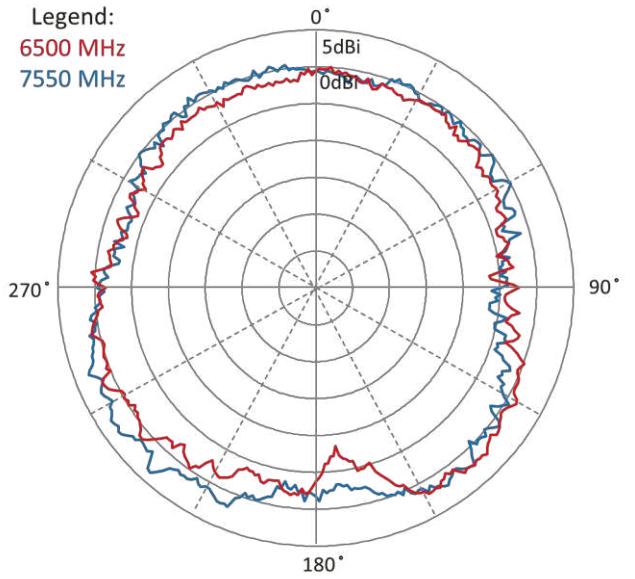
Azimuth



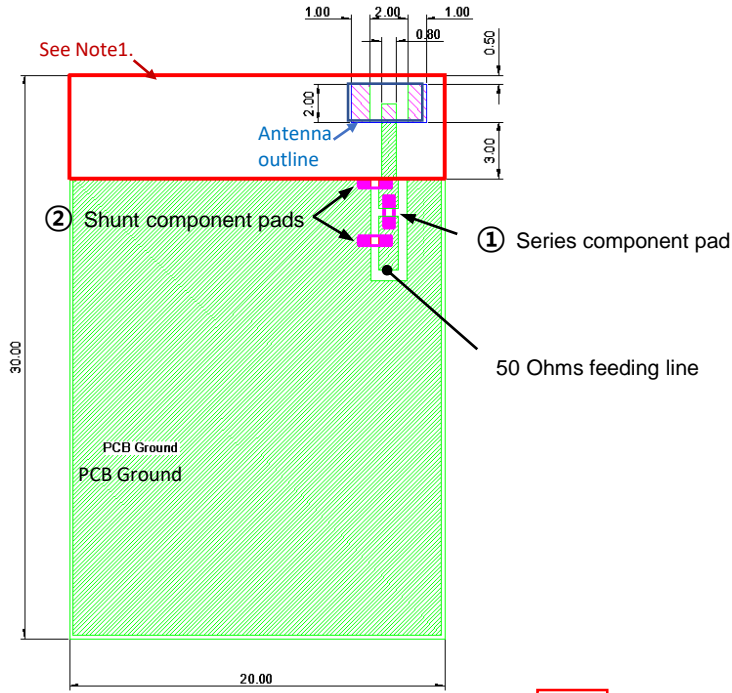
Elevation 1




Elevation 2



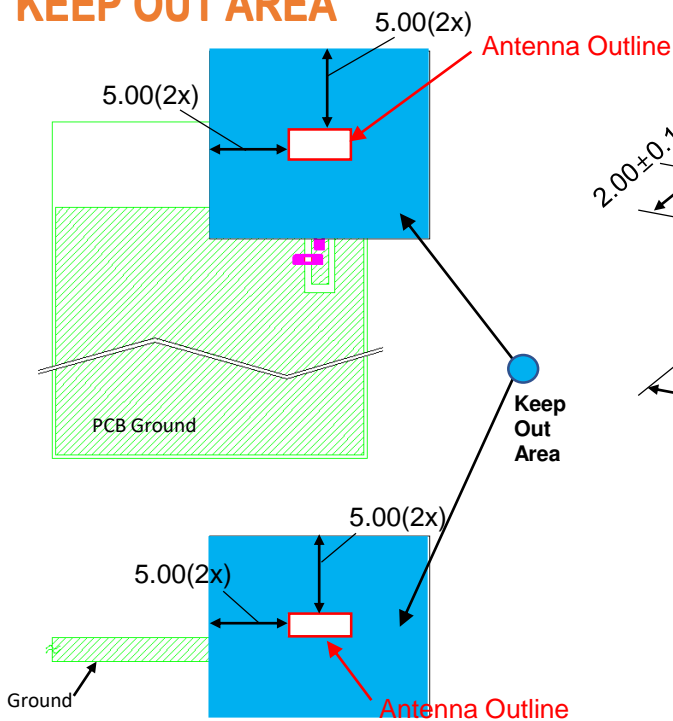
# MOUNTING GUIDE



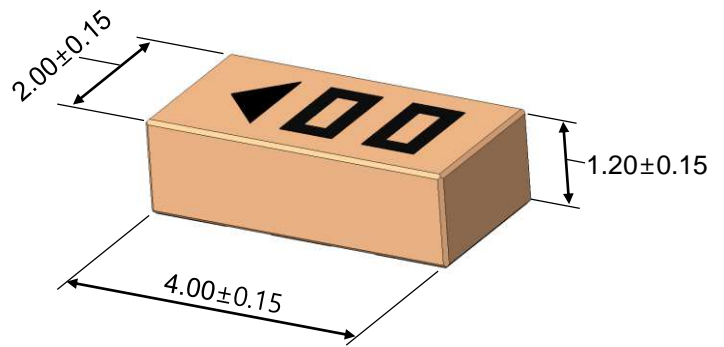
- NOTES: 1. No copper allowed in designated area on all PCB layers –   
 2. Measured with above matching circuit condition.  
 3. For more information please call TE.  
 4. Measured with below matching circuit condition.  
 ① 100pF    ② NC

Dimensions: mm  
 Diagram is not to scale

## KEEP OUT AREA



## DIMENSIONS

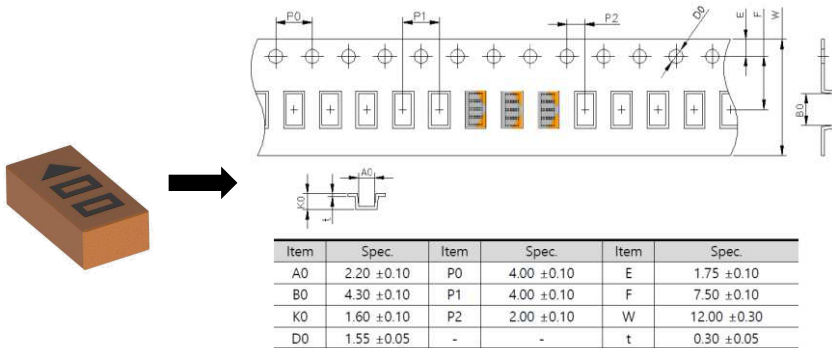


Dimensions: mm  
 Diagram is not to scale

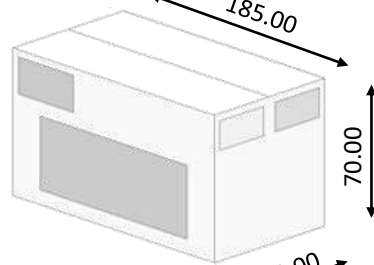
# 6000-8100 MHz UWB EMBEDDED CHIP ANTENNA

Standard Antenna Solutions

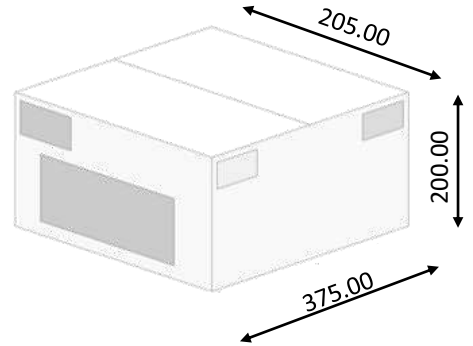
## PACKAGING



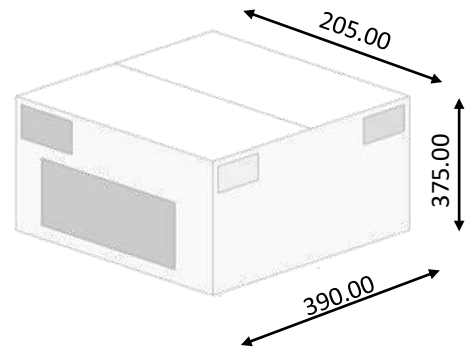
2,000pcs/1Reel  
Ø7" x 16 mm



6,000pcs/3 Reel  
3 Reel/1 Inner box



30,000pcs/5 Inner box  
5 Inner box/1 Outer box #1



60,000pcs/10 Inner box  
10 Inner box/1 Outer box #2

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- Mexico: +52 (0) 55-1106-0800
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- Germany: +49 (0) 6251-133-1999
- UK: +44 (0) 800-267666
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