



# Wi-Fi SINGLE BAND ON BOARD ANTENNA

Part Numbers: 2108789-1, 2108789-2

## FEATURES & BENEFITS

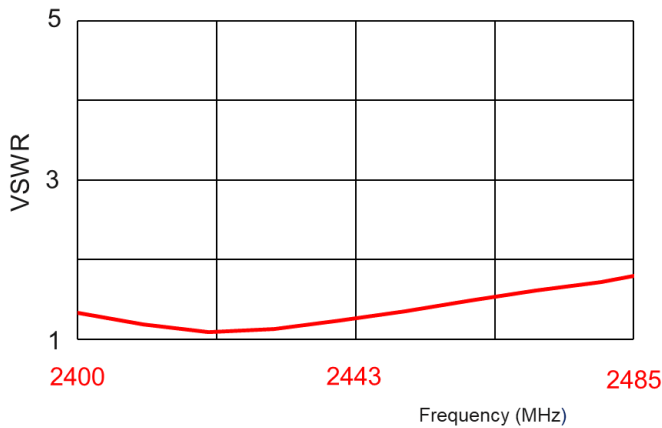
- IEEE802.11 b/g, Bluetooth, ZigBee
- Global Frequency coverage
- Small and lightweight PCB antenna
- Minimal keep out zone requirement
- Performance dependent on ground plane size and design

## SPECIFICATIONS

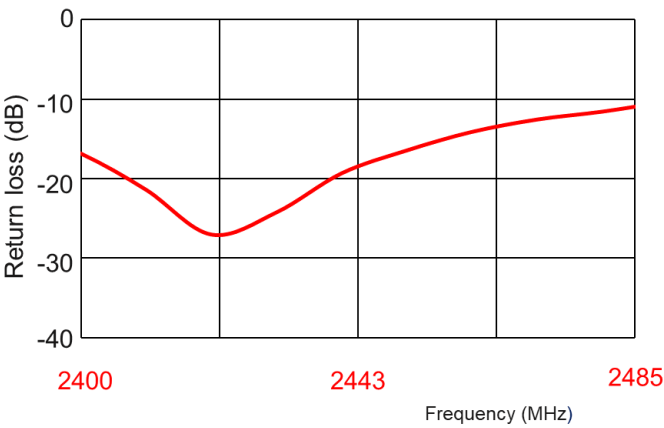
Frequency Range (MHz)	2400-2483.5
VSWR	< 1.8:1
Average Efficiency	60%
Peak Gain	1.0dBi
Average Gain	-2.3dBi
Power Handling	10 Watt cw
Feed Point Impedance	50 ohms unbalanced
Polarization	Linear
Size	8.45 mm x 6.4 mm x 0.79 mm
Weight	< 0.2 g
Mounting	SMT
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Packaging Specification	Bag & Box
Hazardous Materials	A certificate of conformance is available from the product page on TE website.
Data measured in free space and on reference ground plane of 29 mm length and 27 mm width, application data might vary	

RF DATA

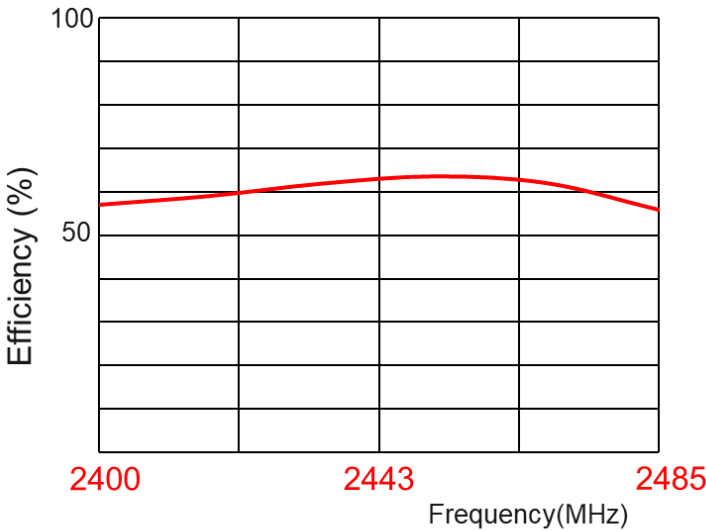
VSWR



Return Loss



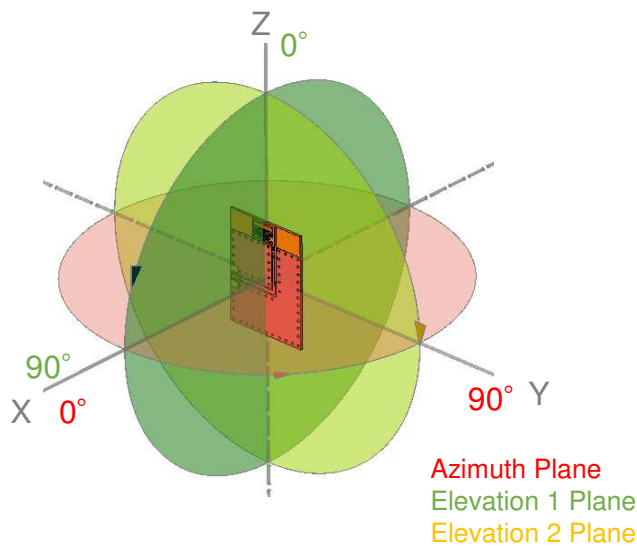
Efficiency



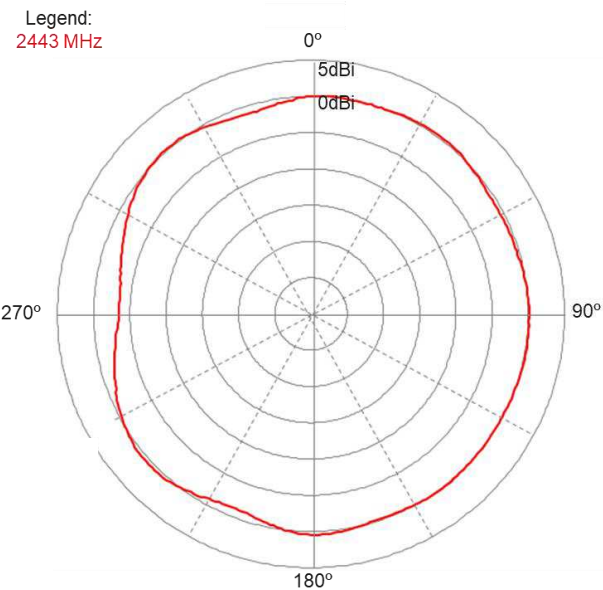
Data measured in free space and on reference ground plane of 29 mm length and 27 mm width, application data might vary

# RADIATION PATTERN

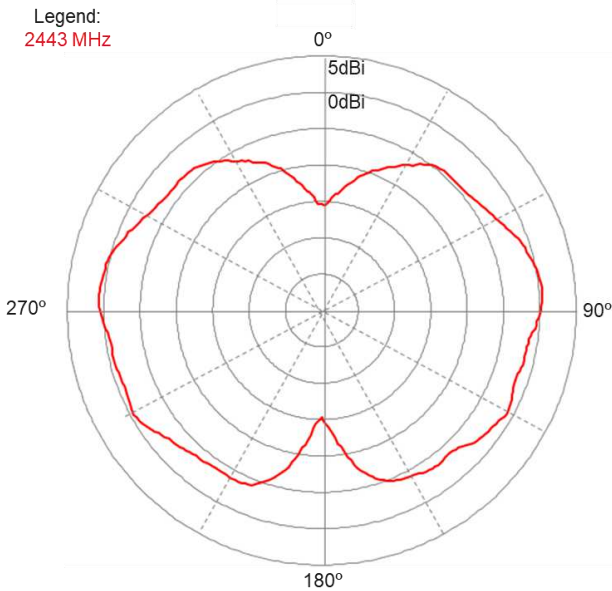
## Test setup



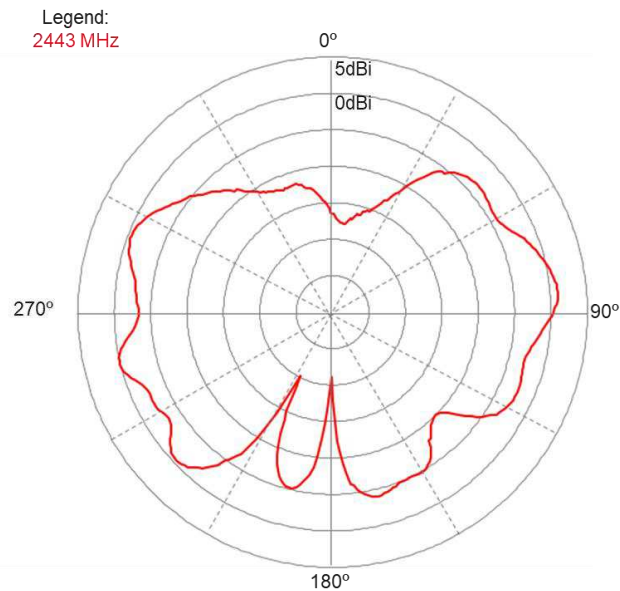
## Azimuth



## Elevation 1

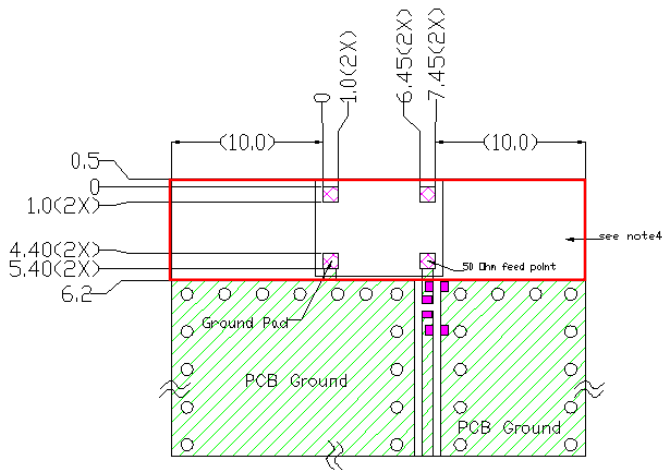



## Elevation 2



Data measured in free space and on reference ground plane of 29 mm length and 27 mm width, application data might vary

MOUNTING GUIDE

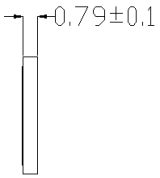
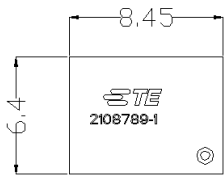
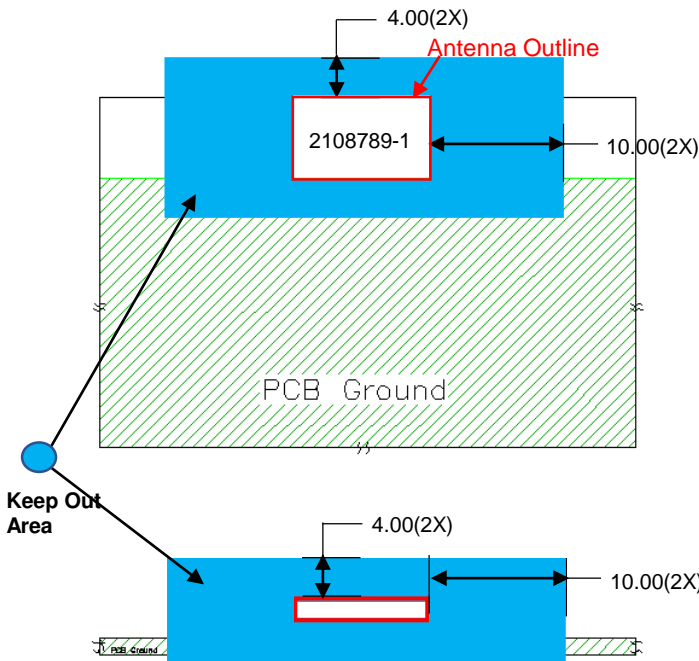


- NOTES: 1. Suggested matching component pads.  
2. Antenna must be mounted on the edge of PCB.  
3. NC = No connection (mechanical mounting pads).  
4. No copper allowed in designated area on all PCB layers –   
5. For more information please call TE.

Dimension: mm  
Diagrams is not into scale

KEEP OUT AREA

DIMENSIONS

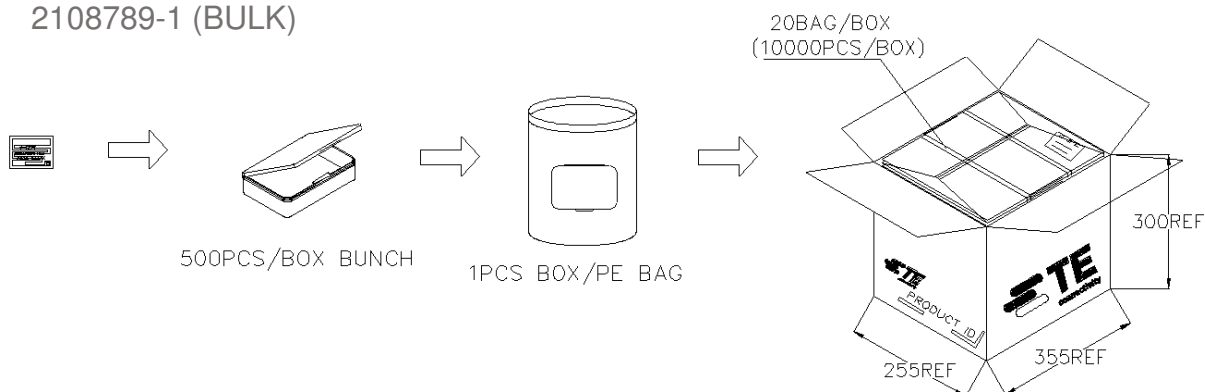


Dimension: mm  
Diagrams is not into scale

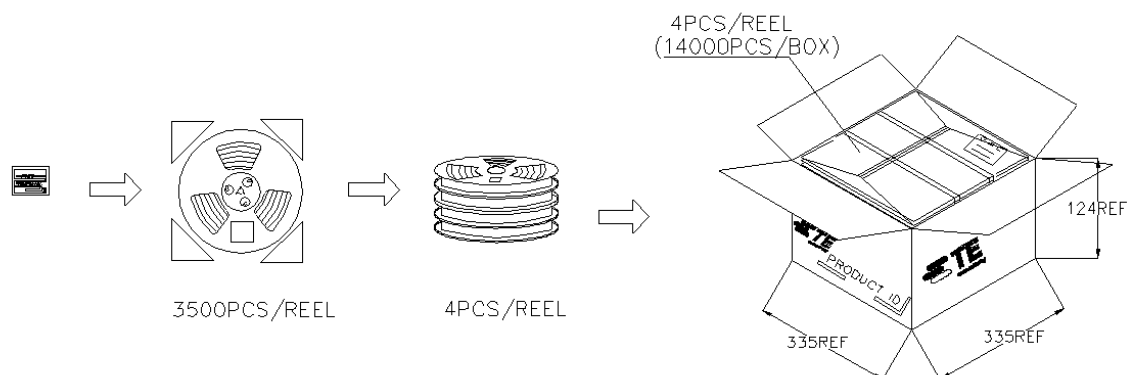
Dimension: mm  
Diagrams is not into scale

## PACKAGING

### 2108789-1 (BULK)



### 2108789-2 (TAPE & REEL)



## TE TECHNICAL SUPPORT CENTER

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