



# Wi-Fi SINGLE BAND ON BOARD ANTENNA

Part Numbers: 2108790-1, 2108790-2

## FEATURES & BENEFITS

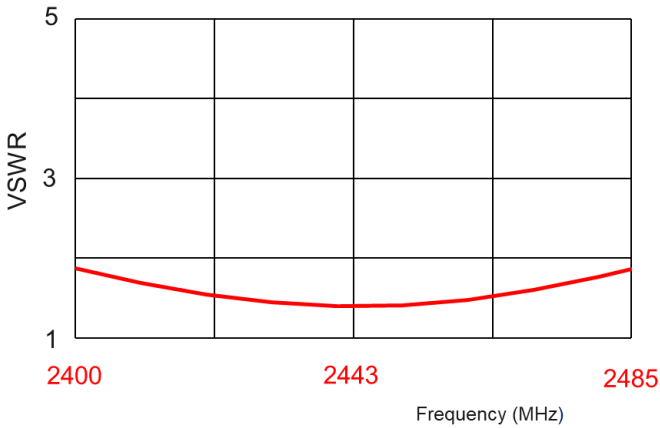
- IEEE802.11 b/g, Bluetooth, ZigBee
- Global Frequency coverage
- On board SMD mount PCB antenna
- Minimal keep out zone requirement
- Performance dependent on ground plane size and design

## SPECIFICATIONS

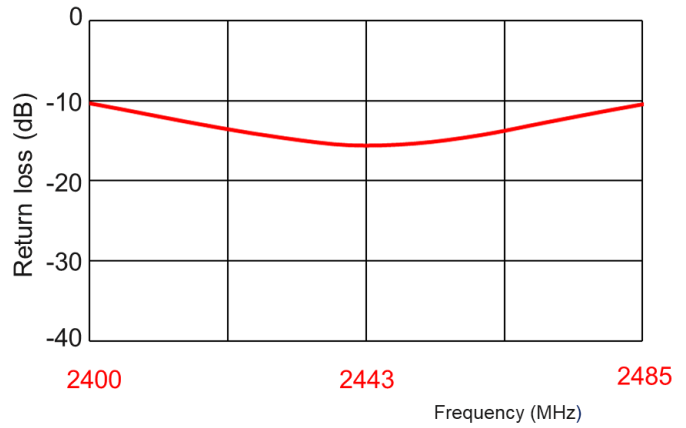
Frequency Range (MHz)	2400-2483.5
VSWR	< 2.0:1
Average Efficiency	60%
Peak Gain	0.4dBi
Average Gain	-2.3dBi
Power Handling	10 Watt cw
Feed Point Impedance	50 ohms unbalanced
Polarization	Linear
Size	18.9 mm x 6.2 mm x 0.76 mm
Weight	< 0.2 g
Mounting	Surface mount
Operating Temperature	-40 to +85°C
Storage 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.
<b>Data measured in free space and on reference ground plane of 29 mm length and 37 mm width, application data might vary</b>	

## RF DATA

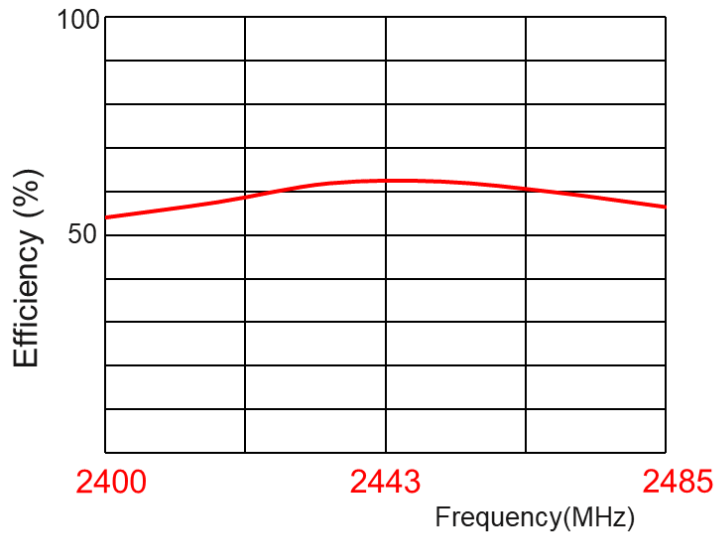
### VSWR



### Return Loss



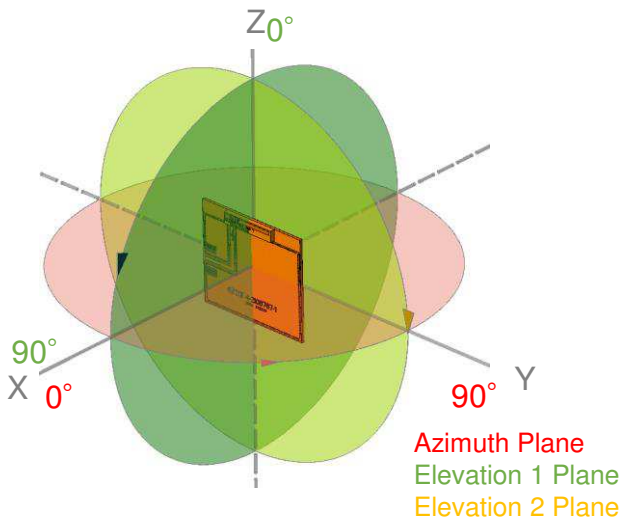
### Efficiency



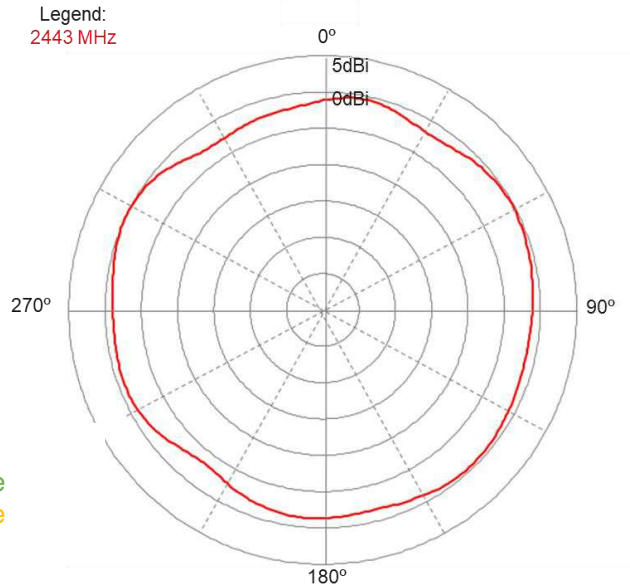
Data measured in free space and on reference ground plane of 29 mm length and 37 mm width, application data might vary

# RADIATION PATTERN

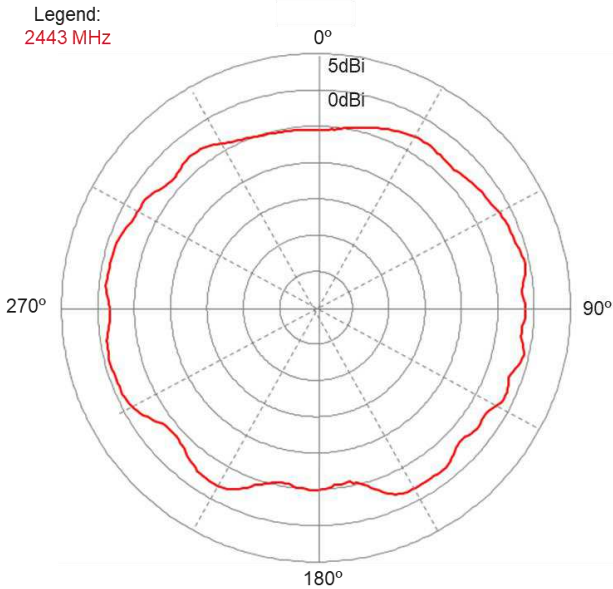
## Test setup



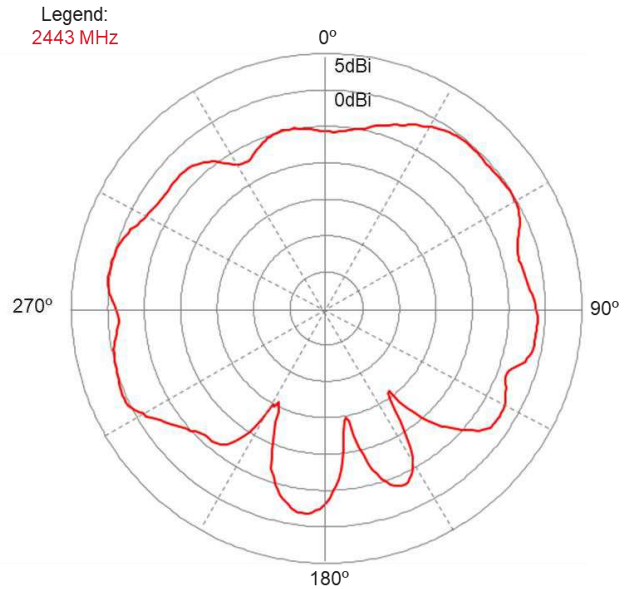
## Azimuth



## Elevation 1

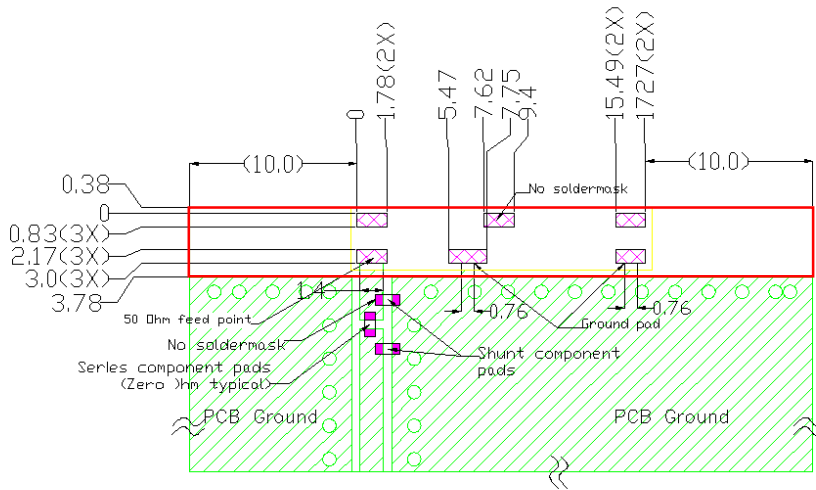


## Elevation 2



Data measured in free space and on reference ground plane of 29 mm length and 37 mm width, application data might vary

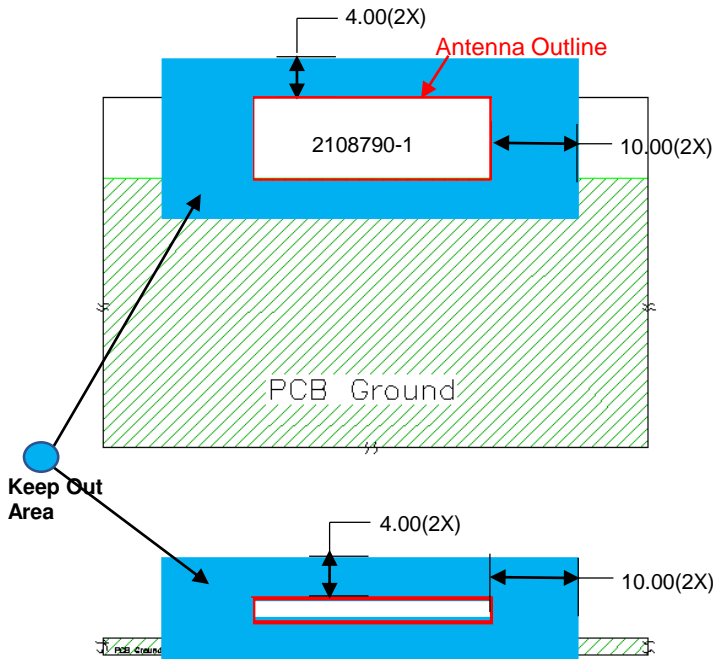
# MOUNTING GUIDE



Dimension: mm  
Diagrams is not into scale

- 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.

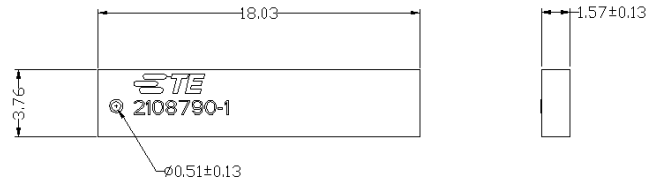
## KEEP OUT AREA



Keep Out Area

Dimension: mm  
Diagrams is not into scale

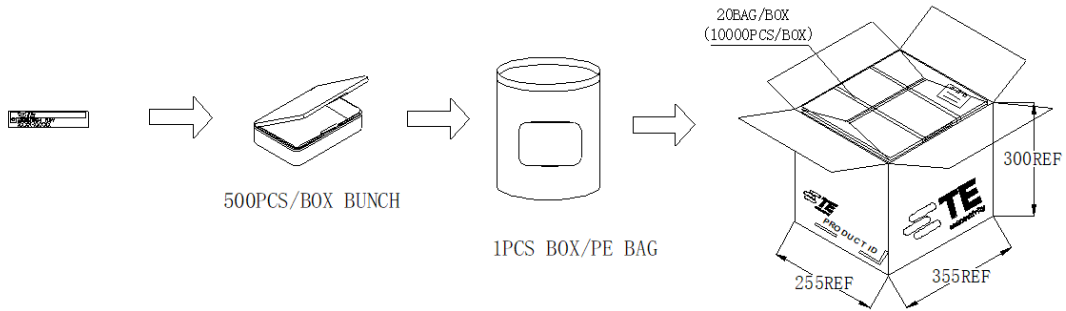
## DIMENSIONS



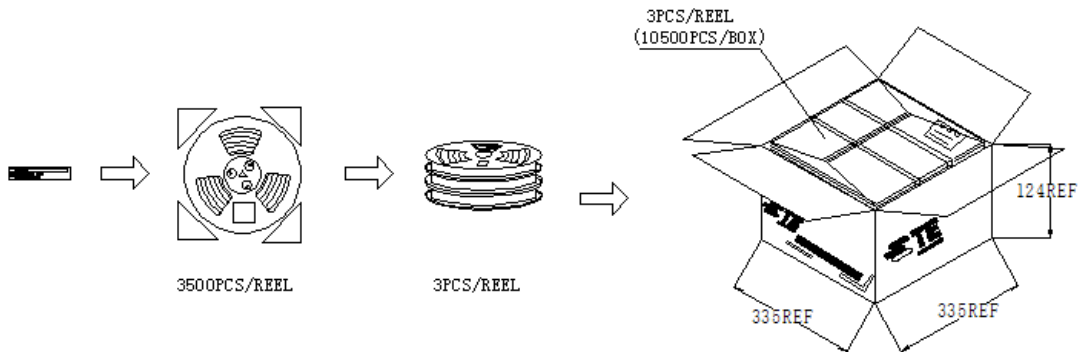
Dimension: mm  
Diagrams is not into scale

## PACKAGING

### 2108790-1 (BULK)



### 2108790-2 (TAPE & REEL)



### TE TECHNICAL SUPPORT CENTER

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