



ISM 868 / 915 MHz ANTENNA

Part Numbers: 2195835-1~-8

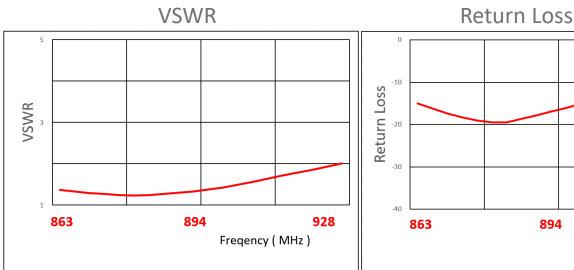
FEATURES & BENEFITS

- ISM antenna, including of 868 / 915 ISM and IoT products
- Available cable lengths: 50,100,150,200 mm, custom specific
 (Different cable lengths having impact on RF performance, see individual RF data)
- Available connectors: MHF, MHF4 or compatible, custom specific
- FPC with double side adhesive tape simplifies mounting within the device even on curved areas
- Omnidirectional coverage

SPECIFICATIONS

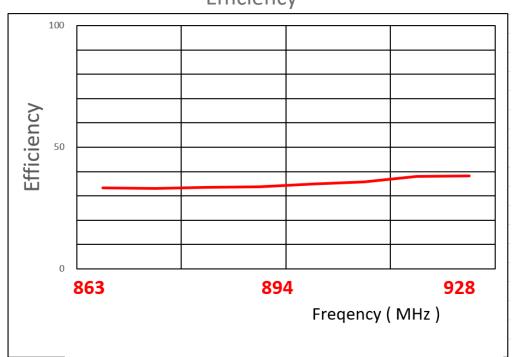
P/N	2195835-1/-2/-3/-5/-6/-7	2195835-4/-8
Frequency Range (MHz)	863-928	863-928
VSWR	< 2.3:1	< 2.3:1
Average Efficiency	35%	47%
Peak Gain	1.4dBi	-0.9dBi
Average Gain	-4.5dB	-3.2dB
Power Handling	10 Watt cw	
Feed Point Impedance	50 ohms unbalanced	
Polarization	Linear	
Size	38 mm x 9.0 mm x 0.2 mm	
Weight	< 0.9 g	
Mounting	Adhesive flexible tape	
Mating Connectors	MHF type receptacle (TE PN 2337019-1), MHF4 type receptacle (TE PN: 2334884-1)	
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 ≤ 150 mm cable length





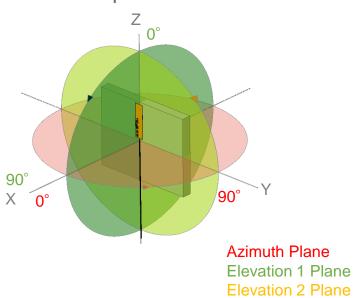
Efficiency



P/N: 2195835-1/-2/-3/-5/-6/-7 Data measured in free space and on plastic device enclosure

RADIATION PATTERN ≤ 150 mm cable length

Test setup

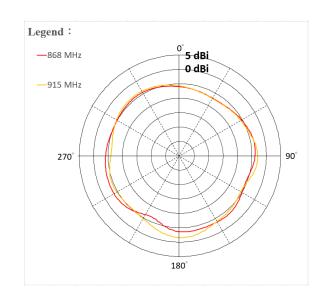


Azimuth Legend: -868 MHz 915 MHz 270° 90°

Elevation 1

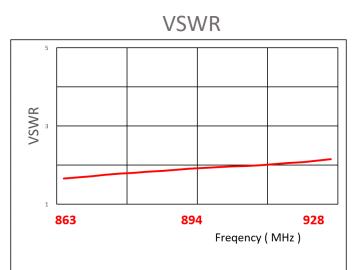
Legend: -868 MHz -915 MHz 270° 180°

Elevation 2



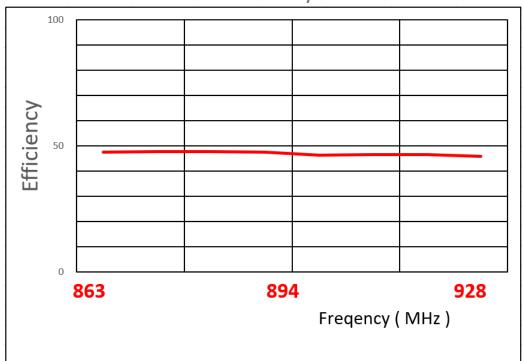
P/N: 2195835-1/-2/-3/-5/-6/-7
Data measured in free space and on plastic device enclosure

RF DATA for 200 mm cable length





Efficiency



P/N: 2195835-4/-8

Data measured in free space and on plastic device enclosure

RADIATION PATTERN for 200 mm cable length

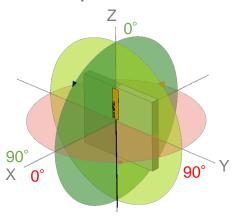


Legend:

-868 MHz

—915 MHz

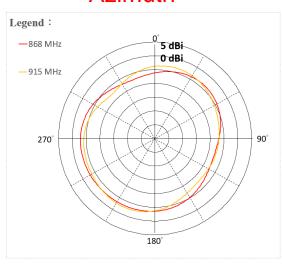
270°



Azimuth Plane Elevation 1 Plane **Elevation 2 Plane**

90°

Azimuth



Elevation 1

<u>0°</u> ⊤ **5 dBi**-0 dBi

P/N: 2195835-4/-8

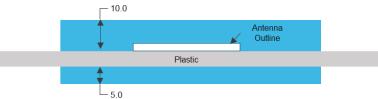
180

Elevation 2



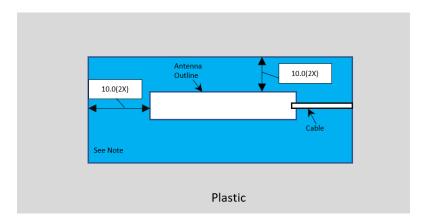
Data measured in free space and on plastic device enclosure

KEEP OUT AREA



NOTES

- 1. Antenna designed to be mounted on plastic cover.
- 2. Area in blue indicates Keep Out Area
- 3. Contact TE if keep out zone cannot be guaranteed.



Dimension: mm Diagrams is not into scale

DIMENSIONS

