



ISM 868 / 915 MHz ANTENNA

Part Numbers: 2195849-1~-8

FEATURES & BENEFITS

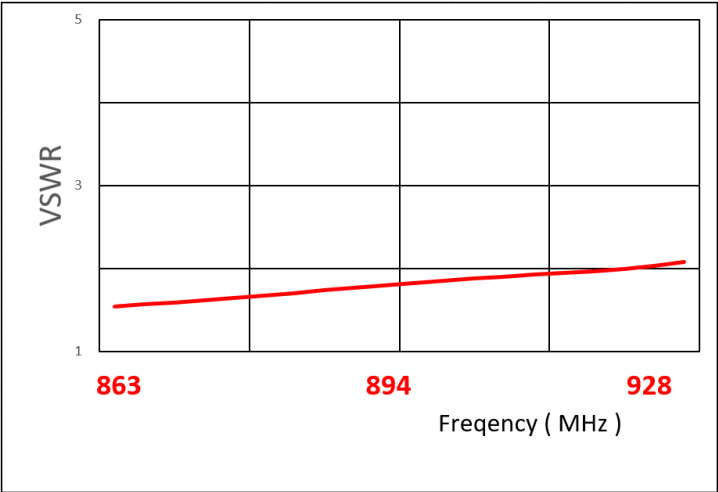
- ISM antenna, including of 868 / 915 ISM and IoT products
- Available cable lengths: 50,100,150,200 mm, custom specific
(Different cable lengths having impact on RF performance, see individual RF data)
- Available connectors: MHF, MHF4 or compatible, custom specific
- FPC with double side adhesive tape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

SPECIFICATIONS

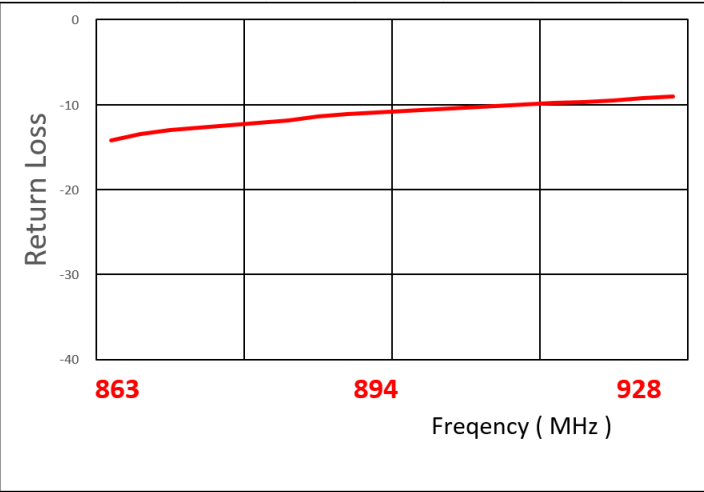
P/N	2195849-2/-3/-4/-6/-7-8	2195849-1/-5
Frequency Range (MHz)	863-928	863-928
VSWR	< 2.2:1	< 2.2:1
Average Efficiency	40%	34%
Peak Gain	1.8dBi	-0.3dBi
Average Gain	-3.9dB	-4.6dB
Power Handling	10 Watt cw	
Feed Point Impedance	50 ohms unbalanced	
Polarization	Linear	
Size	38 mm x 9.0 mm x 0.2 mm	
Weight	< 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 for ≥ 100 mm cable length

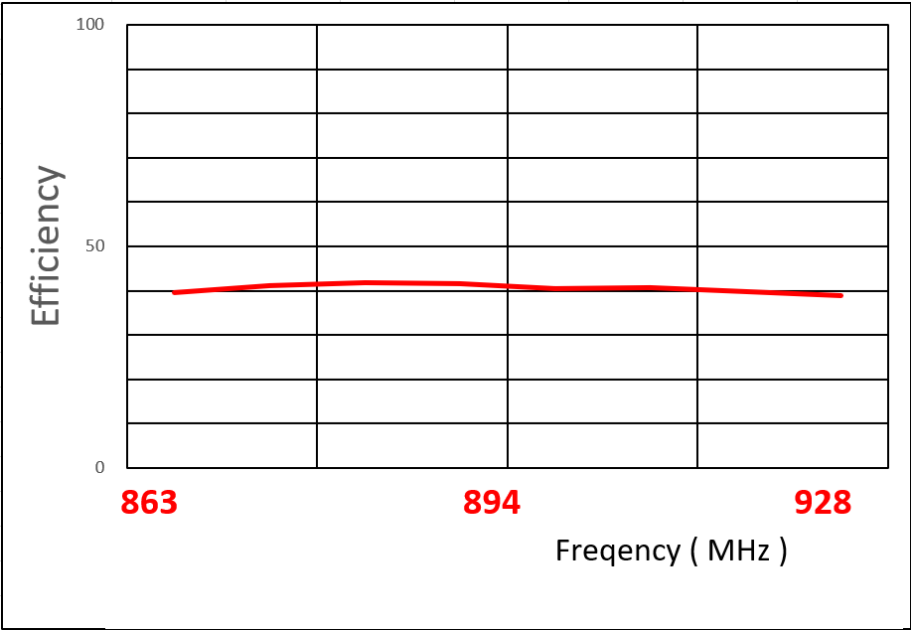
VSWR



Return Loss

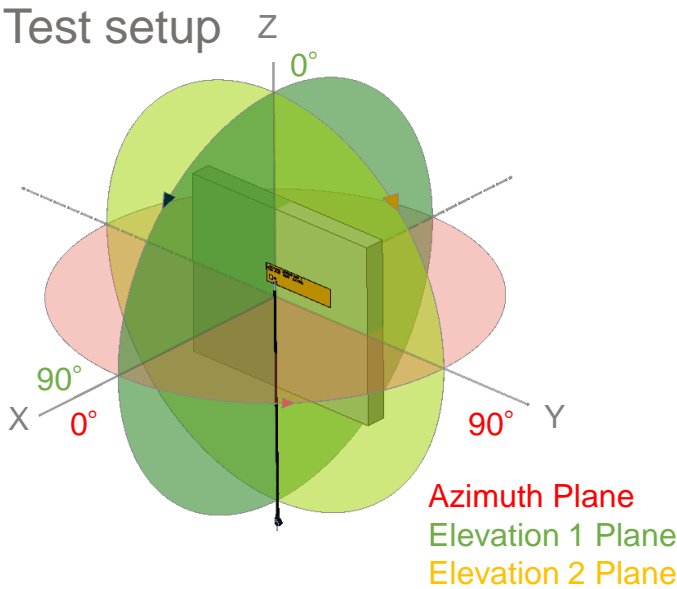


Efficiency

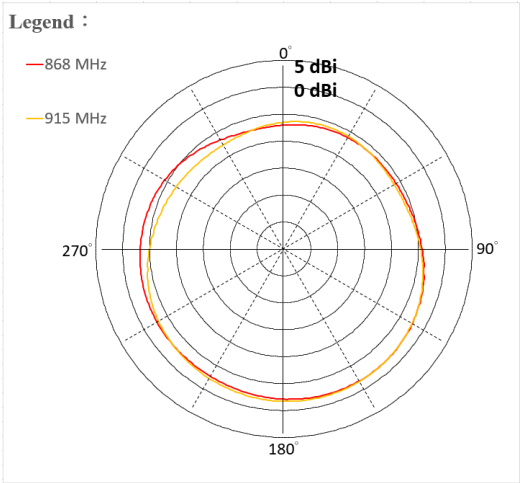


P/N : 2195849-2/-3/-4/-6/-7-8
Data measured in free space and on plastic device enclosure

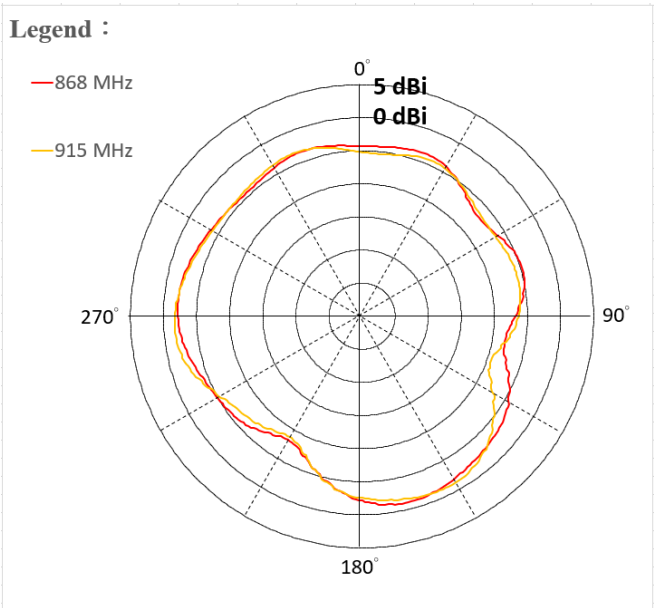
RADIATION PATTERN for ≥ 100 mm cable length



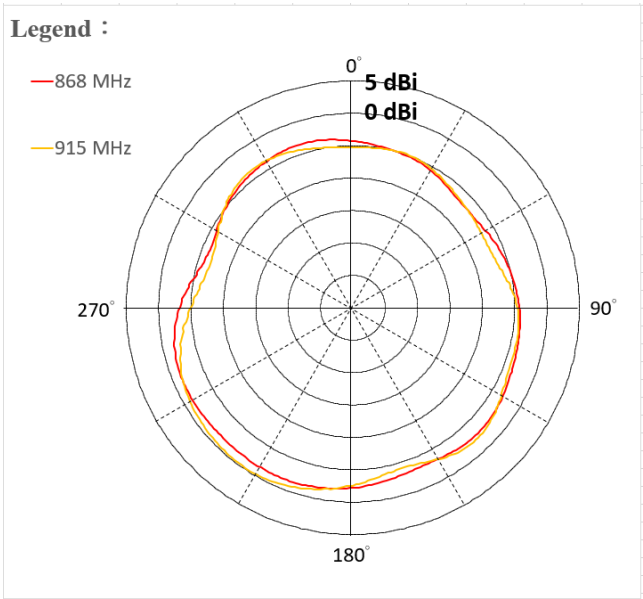
Azimuth



Elevation 1



Elevation 2

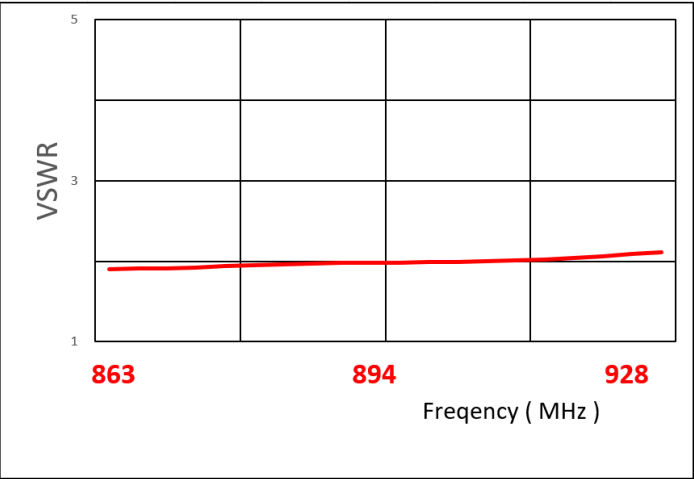


P/N : 2195849-2/-3/-4/-6/-7-8

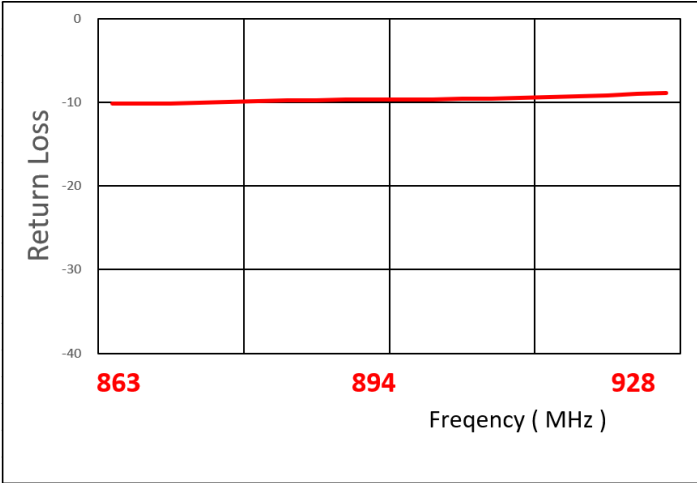
Data measured in free space and on plastic device enclosure

RF DATA for 50 mm cable length

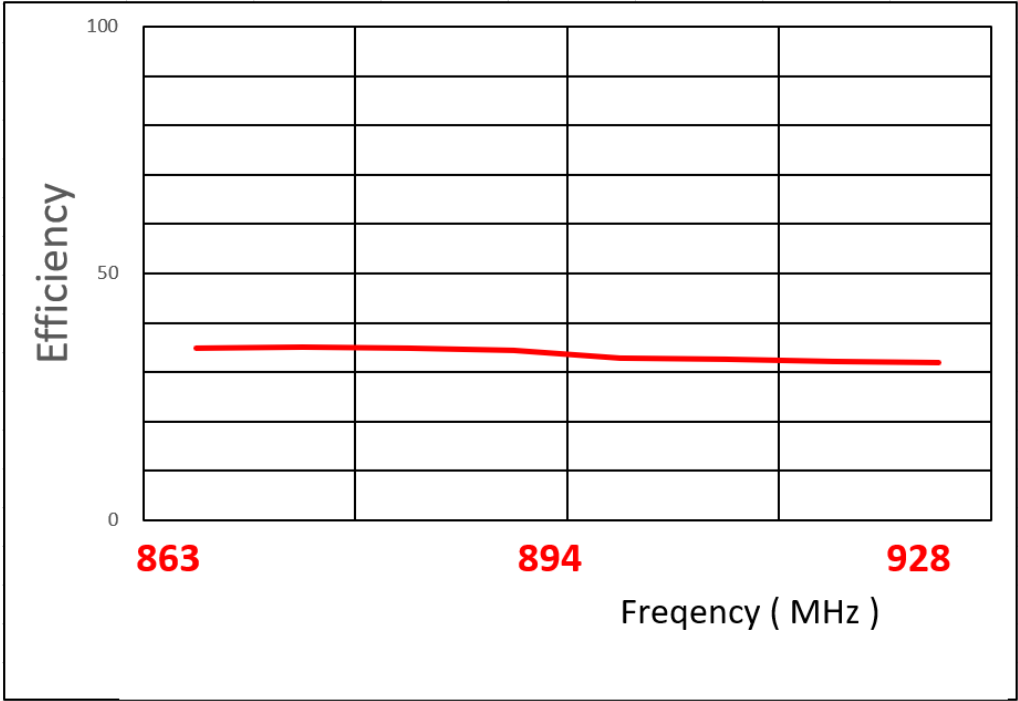
VSWR



Return Loss

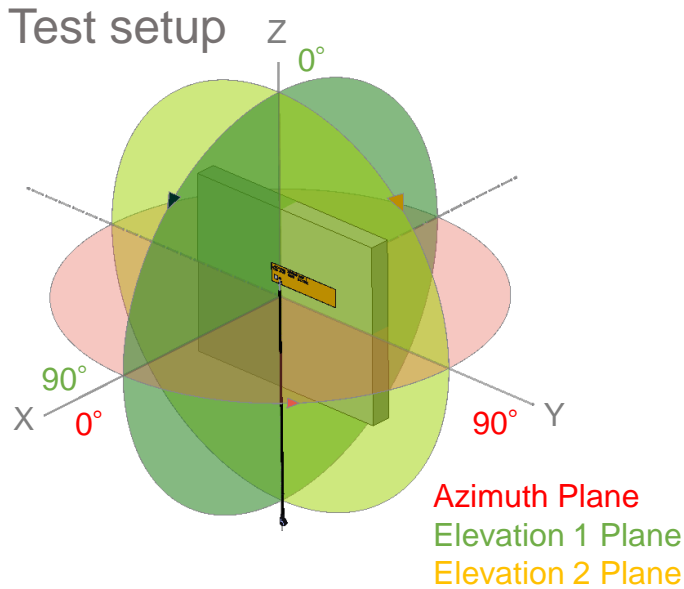


Efficiency

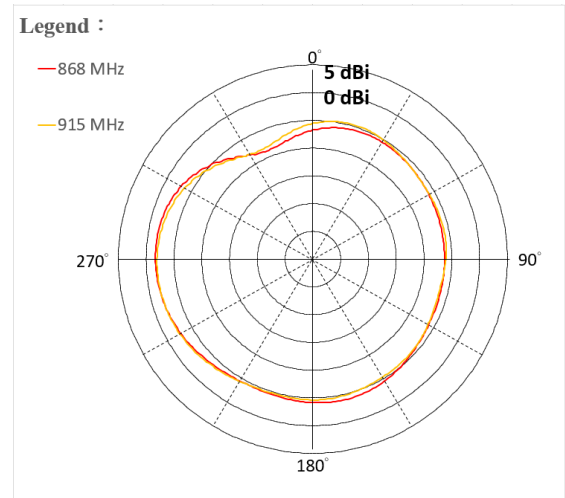


P/N : 2195849-1/-5
Data measured in free space and on plastic device enclosure

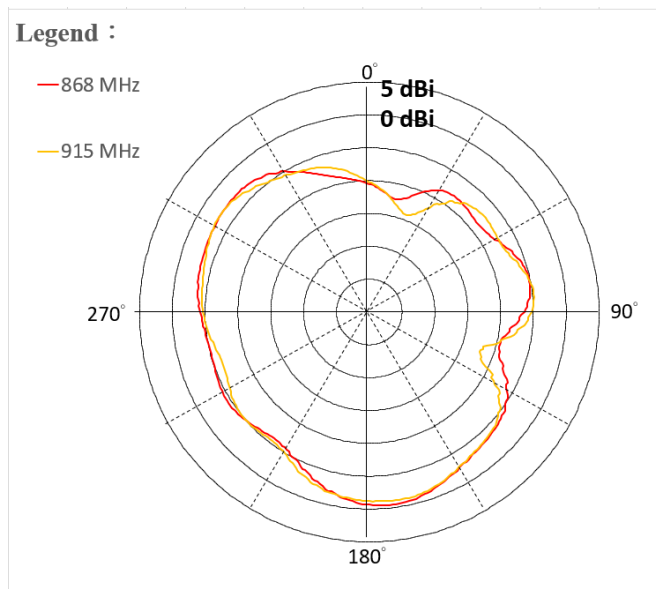
RADIATION PATTERN for 50 mm cable length



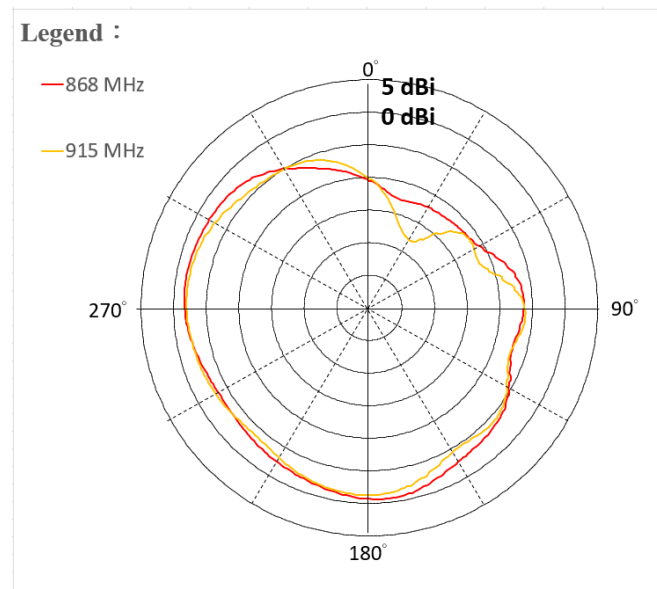
Azimuth



Elevation 1



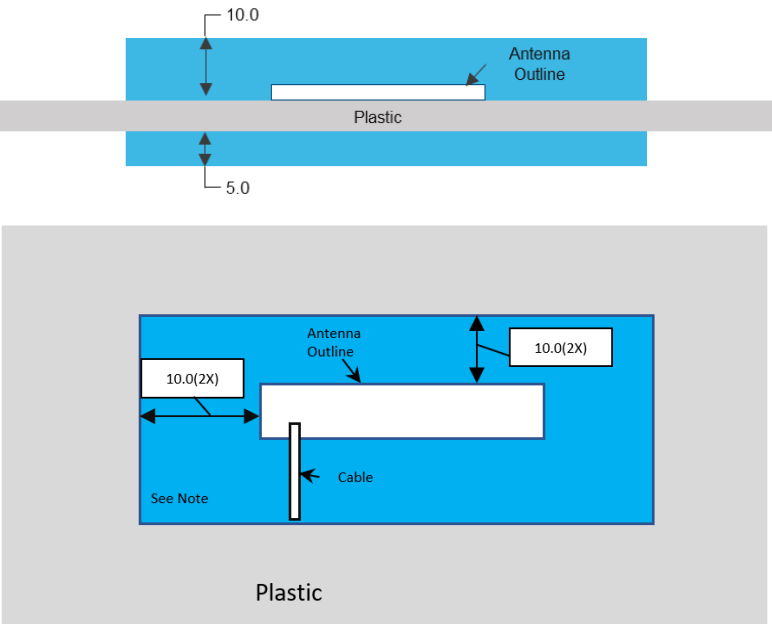
Elevation 2



P/N : 2195849-1/-5

Data measured in free space and on plastic device enclosure

KEEP OUT AREA

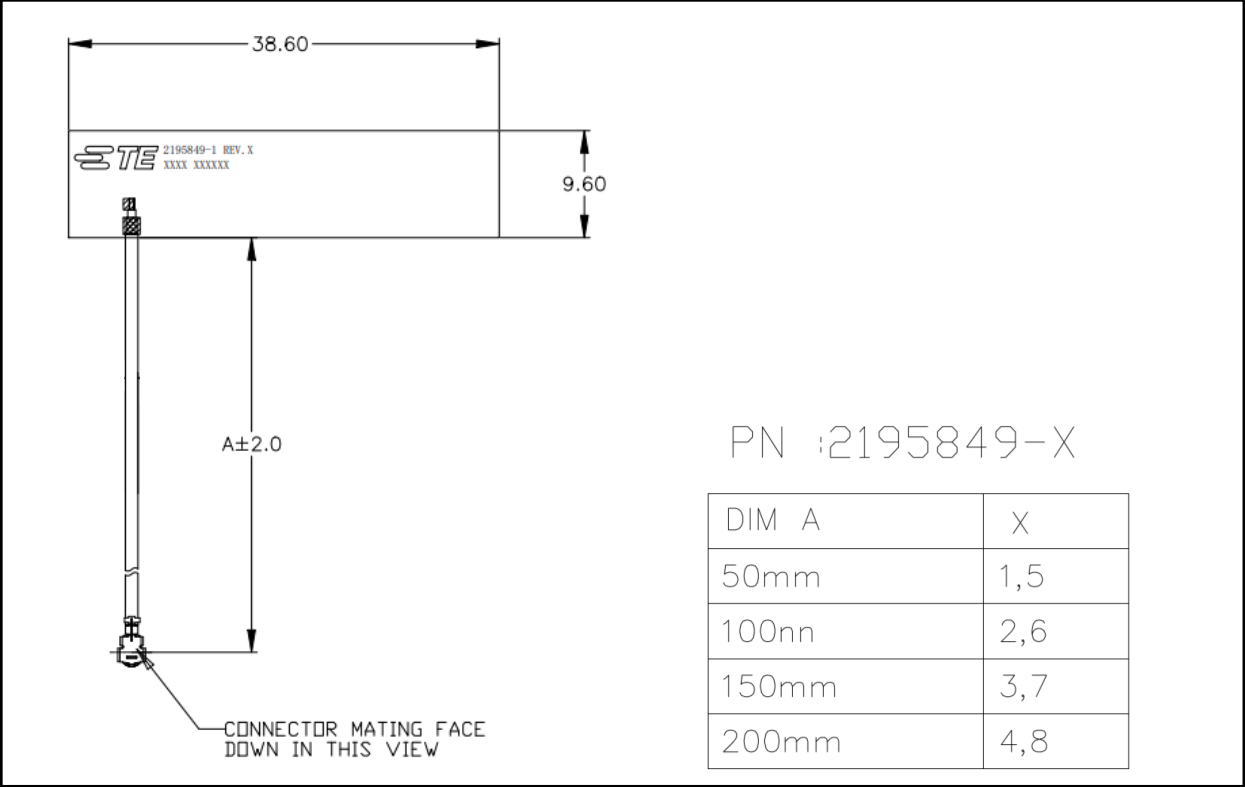


- NOTES**
- 1. Antenna designed to be mounted on plastic cover.
 - 2. Area in blue indicates Keep Out Area
 - 3. Contact TE if keep out zone cannot be guaranteed.

Dimension: mm

Diagrams is not into scale

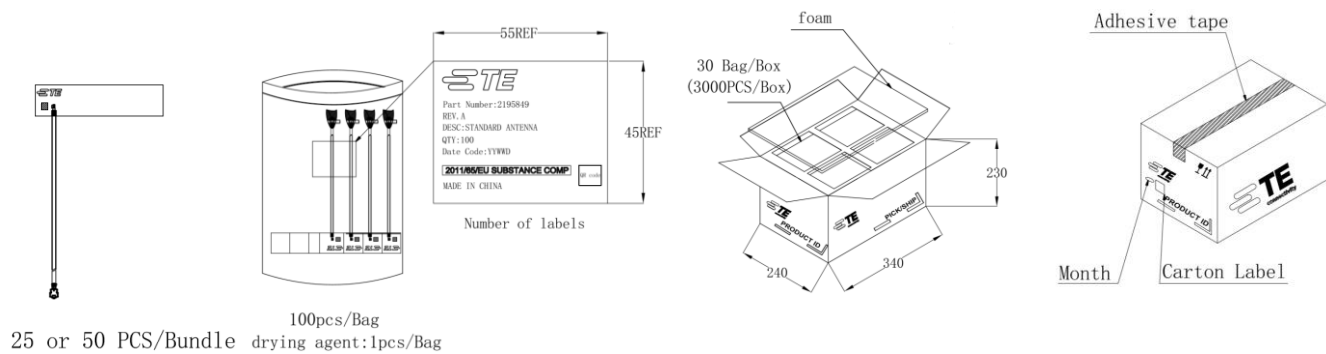
DIMENSIONS



MATING COMPONENTS

2195849-1	50	1.97	MHF-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2337019-1)	
2195849-2	100	3.94	MHF-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2337019-1)	
2195849-3	150	5.91	MHF-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2337019-1)	
2195849-4	200	7.87	MHF-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2337019-1)	
2195849-5	50	1.97	MHF4-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2334884-1)	
2195849-6	100	3.94	MHF4-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2334884-1)	
2195849-7	150	5.91	MHF4-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2334884-1)	
2195849-8	200	7.87	MHF4-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2334884-1)	
PART NUMBER	MM	INCH	CONNECTOR TYPE (ON CABLE)	Cable Dia mm	PART NUMBER	IMAGE
	CABLE LENGTH ("A")				MATING COMPONENTS	

PACKAGING



TE TECHNICAL SUPPORT CENTER

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- Germany: +49 (0) 6251-133-1999
- UK: +44 (0) 800-267666
- France: +33 (0) 1-3420-8686
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