

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

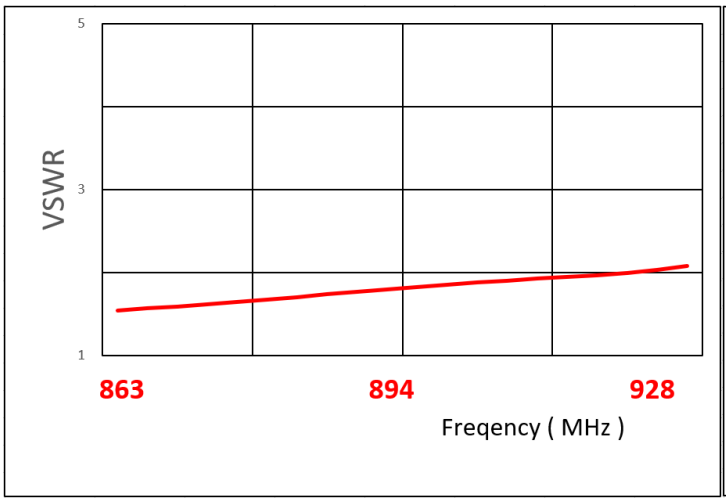
SPECIFICATIONS

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.	

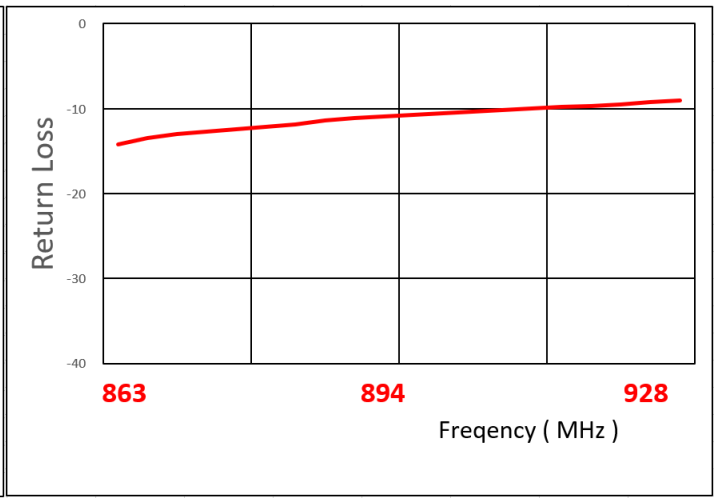
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RF DATA for ≥ 100 mm cable length

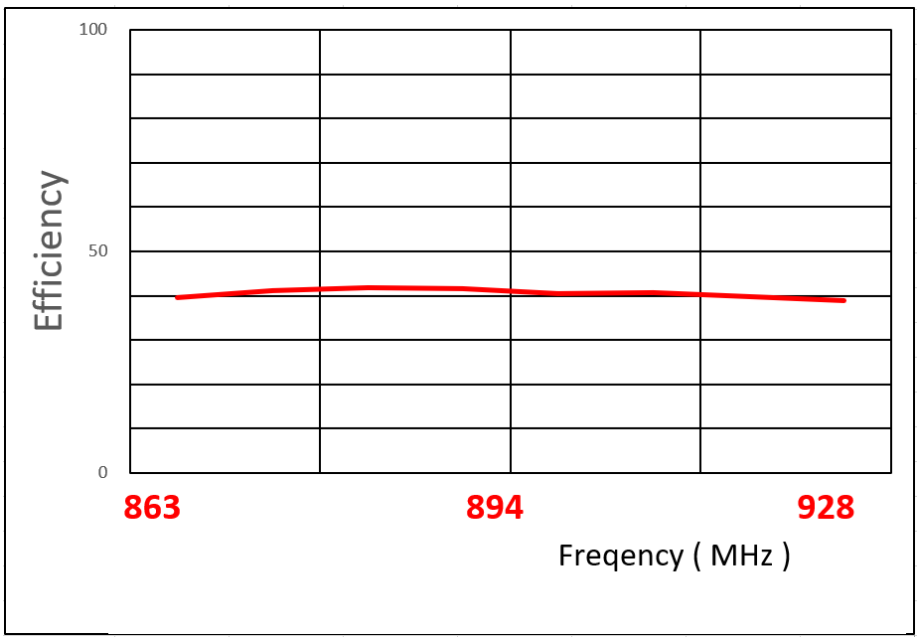
VSWR



Return Loss



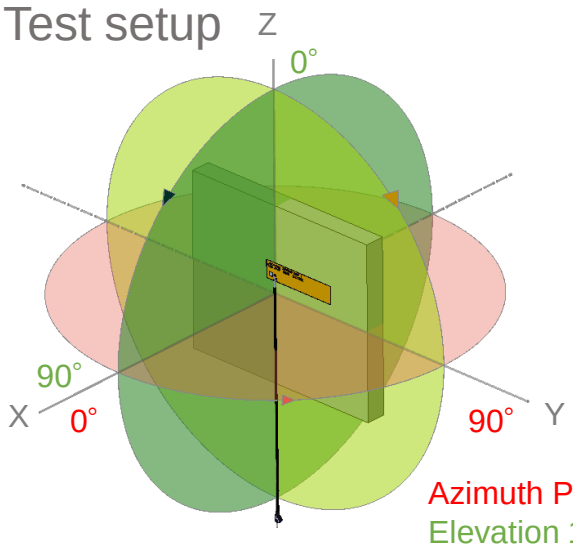
Efficiency



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

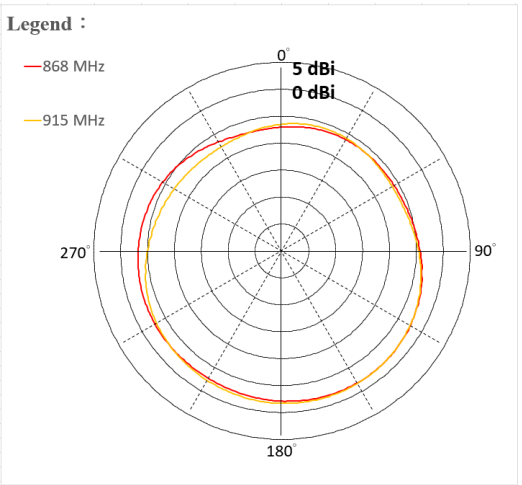
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RADIATION PATTERN for ≥ 100 mm cable length

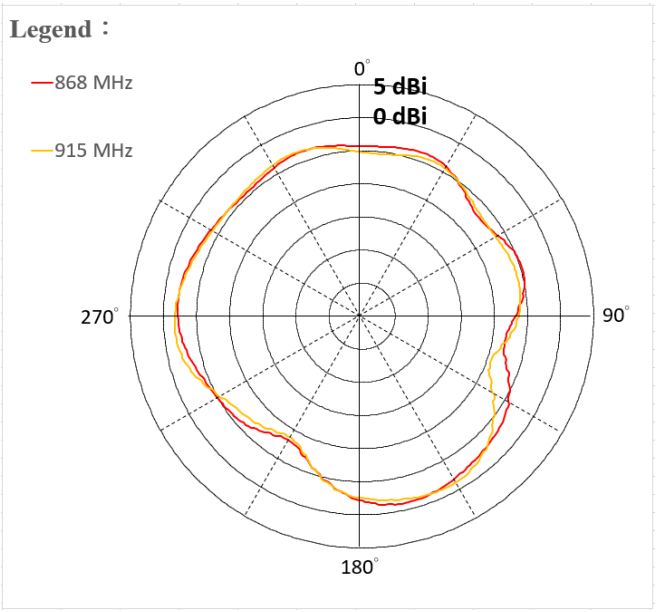


Azimuth Plane
Elevation 1 Plane
Elevation 2 Plane

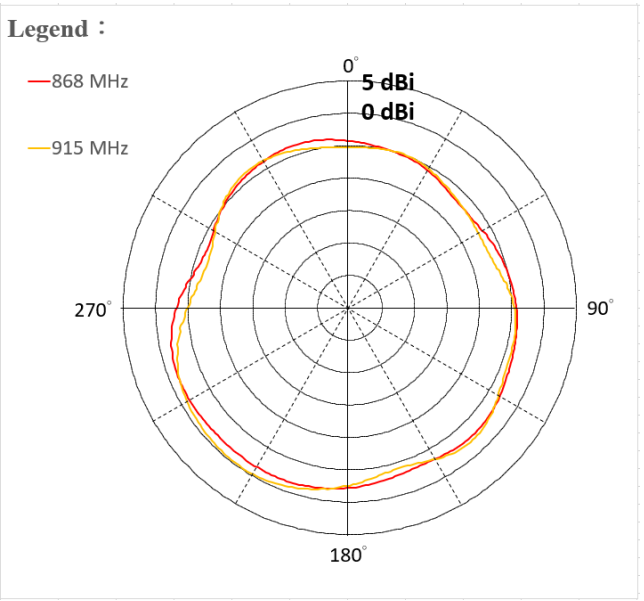
Azimuth



Elevation 1



Elevation 2

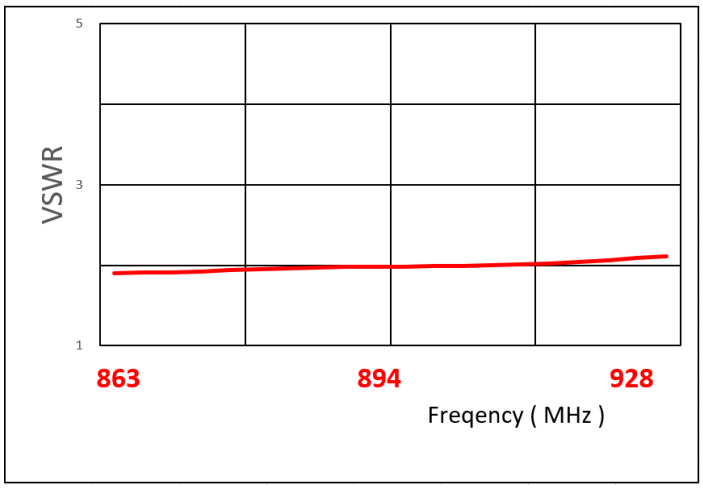


P/N : 2195849-2/-3/-4/-6/-7-8
Data measured in free space and on plastic device enclosure

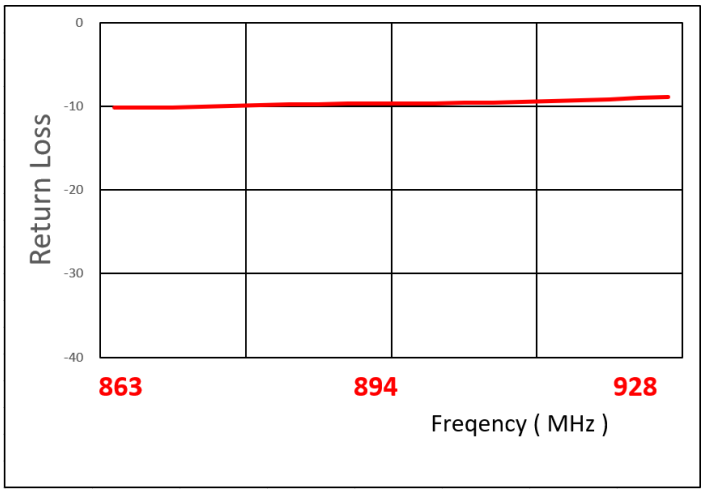
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RF DATA for 50 mm cable length

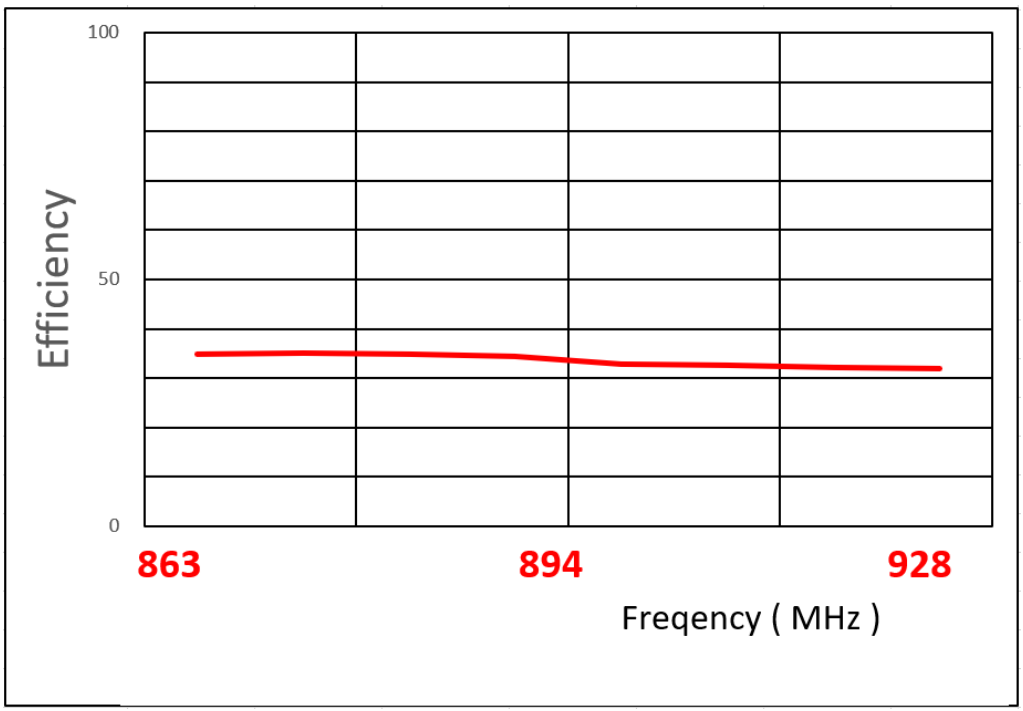
VSWR



Return Loss



Efficiency

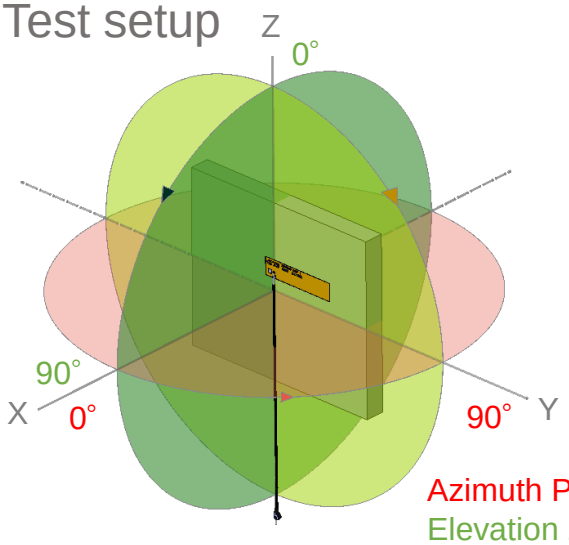


P/N : 2195849-1/-5
Data measured in free space and on plastic device enclosure

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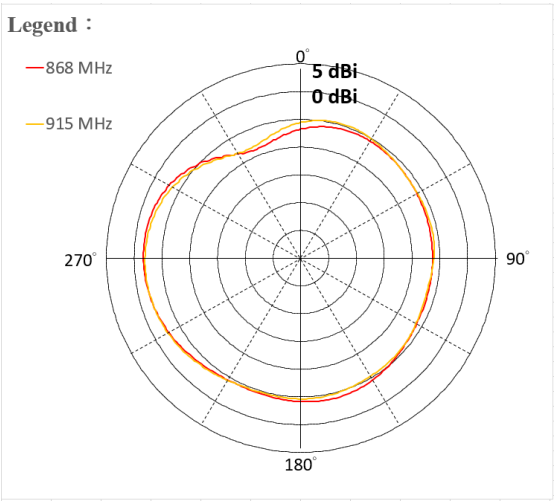
RADIATION PATTERN for 50 mm cable length

Test setup

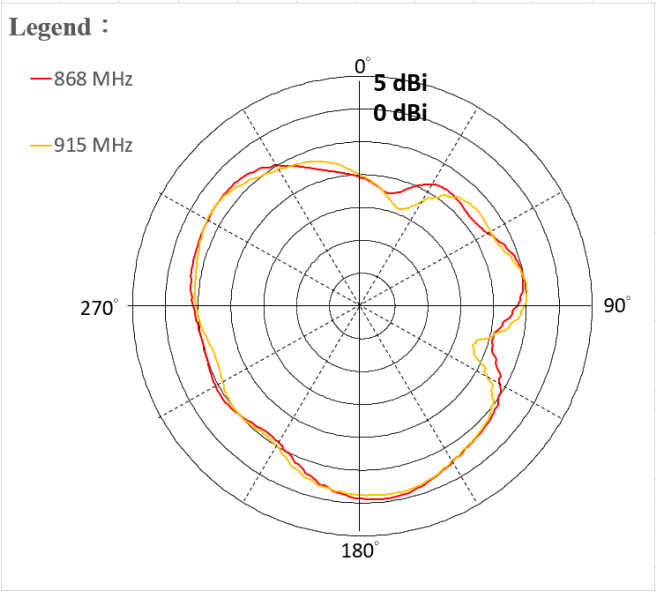


Azimuth Plane
Elevation 1 Plane
Elevation 2 Plane

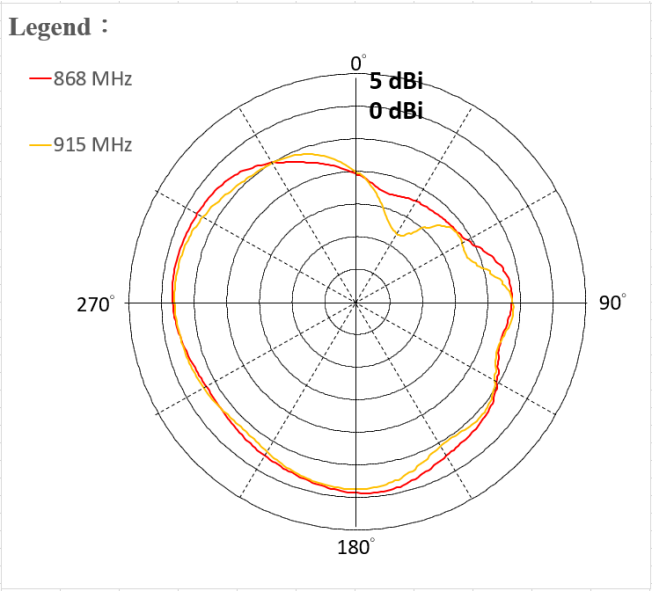
Azimuth



Elevation 1



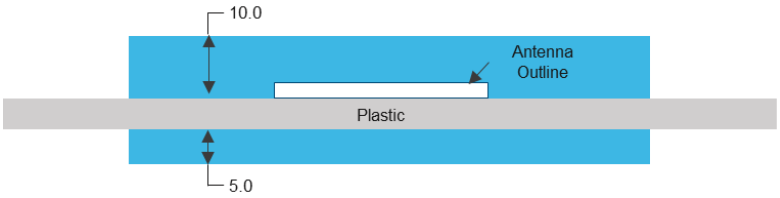
Elevation 2

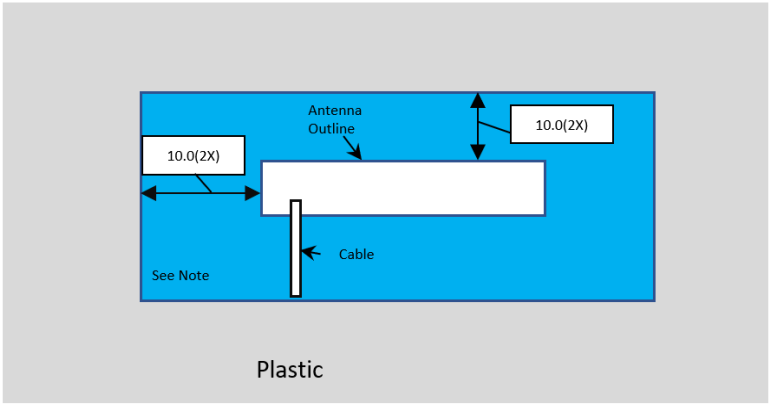


P/N : 2195849-1/-5
Data measured in free space and on plastic device enclosure

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KEEP OUT AREA



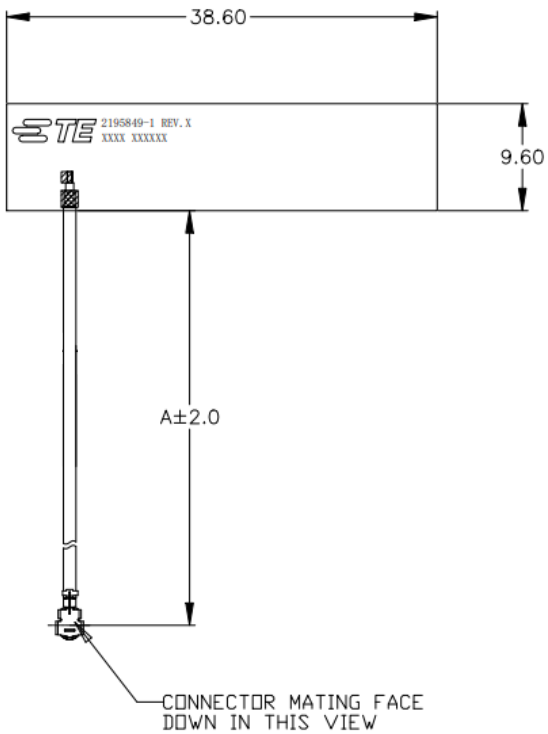


NOTES

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



PN :2195849-X

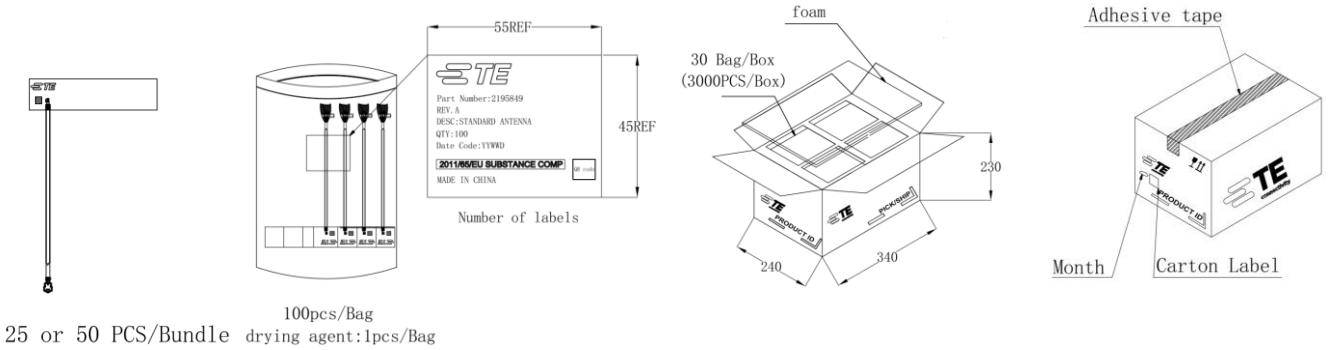
DIM A	X
50mm	1,5
100nn	2,6
150mm	3,7
200mm	4,8

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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 / CABLE LENGTH ("A")	INCH	CONNECTOR TYPE (ON CABLE)	Cable Dia mm	PART NUMBER / MATING COMPONENTS	IMAGE

PACKAGING



TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
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