

**Date:** Aug. 15, 2023

## ANTENNA SPECIFICATIONS

**Product Model Number:** ACBUSRNE

**FCC ID:** 2ANC5-ZWB1

**IC Number:** 23071-ZWB1

To Whom It May Concern:

The ACBUSRNE model with FCC ID: 2ANC5-ZWB1 and IC: 23071-ZWB1 uses a Flexible Printed Circuit (FPC) antenna from TE Connectivity with part number 2195835-1.

Please see the datasheet below for its specifications.

Regards,



Meng Soo

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On behalf of: Avigilon Corporation



# ISM 868 / 915 MHz ANTENNA

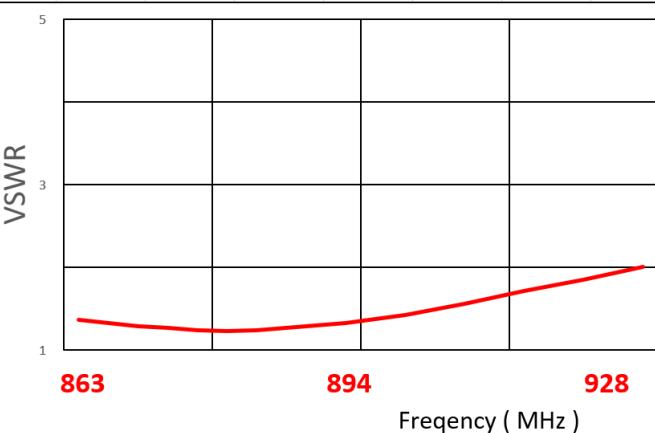
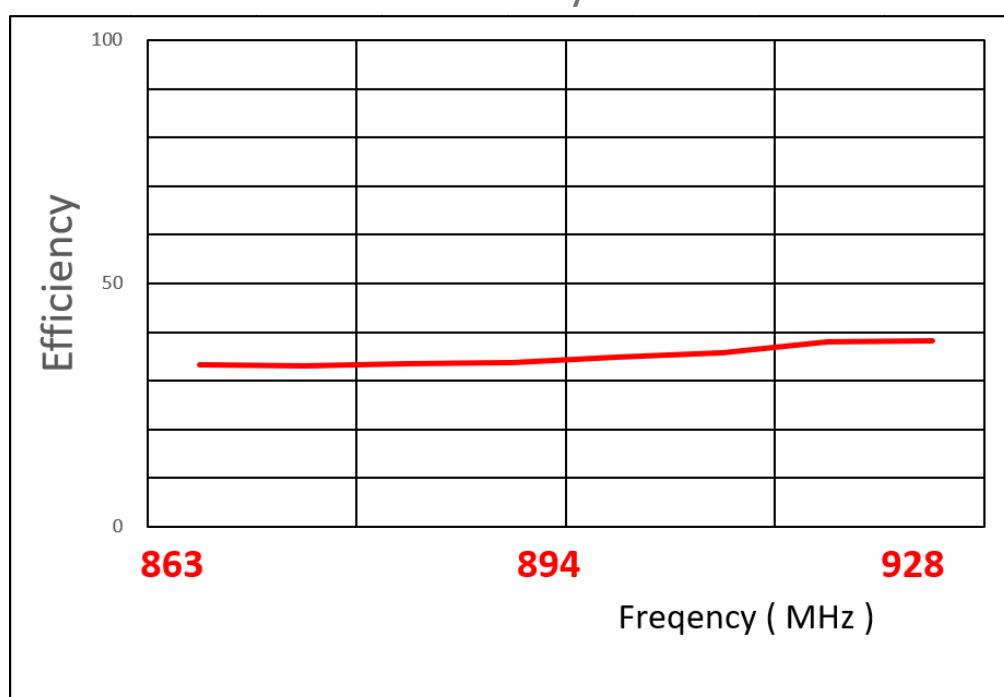
Part Numbers: 2195835-1~8

## 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.	

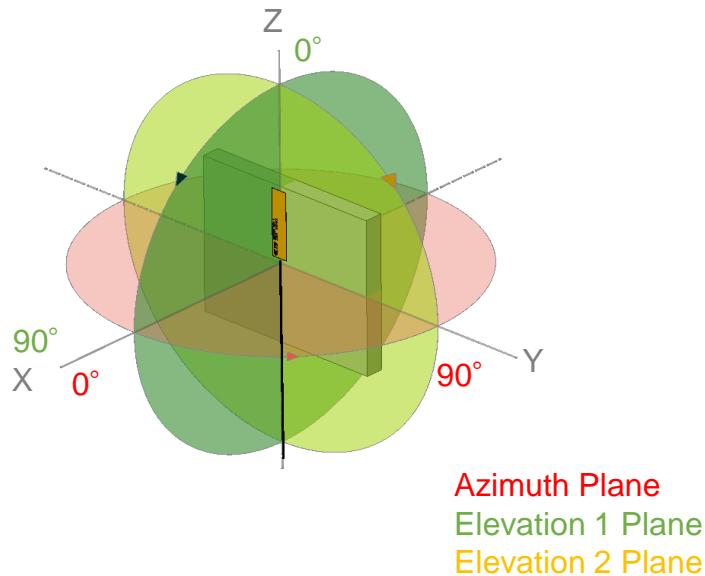
**RF DATA  $\leq$  150 mm cable length****VSWR****Return Loss****Efficiency**

P/N : 2195835-1/-2/-3/-5/-6/-7

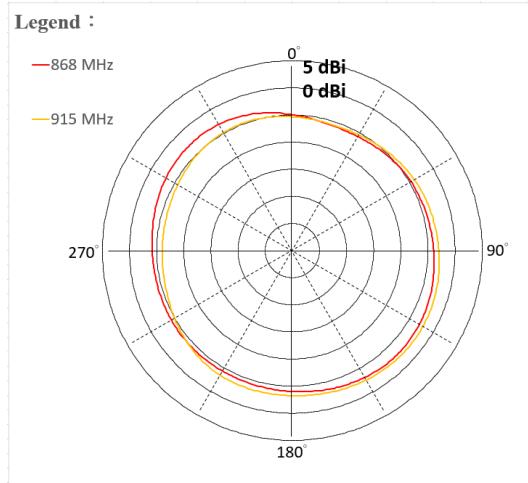
Data measured in free space and on plastic device enclosure

RADIATION PATTERN  $\leq 150$  mm cable length

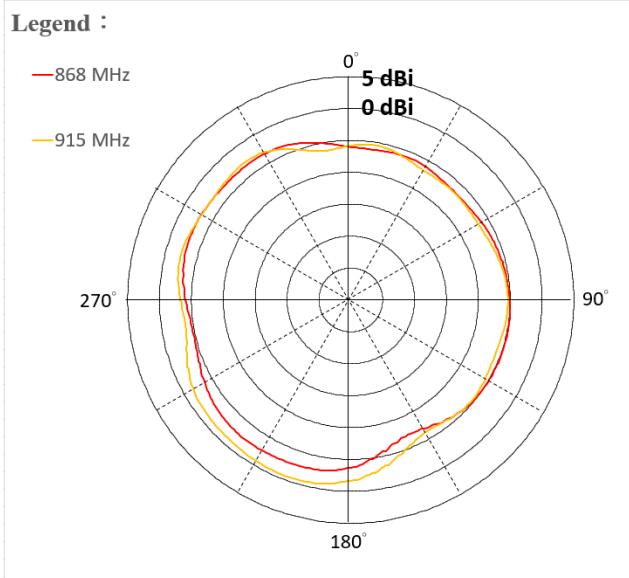
## Test setup



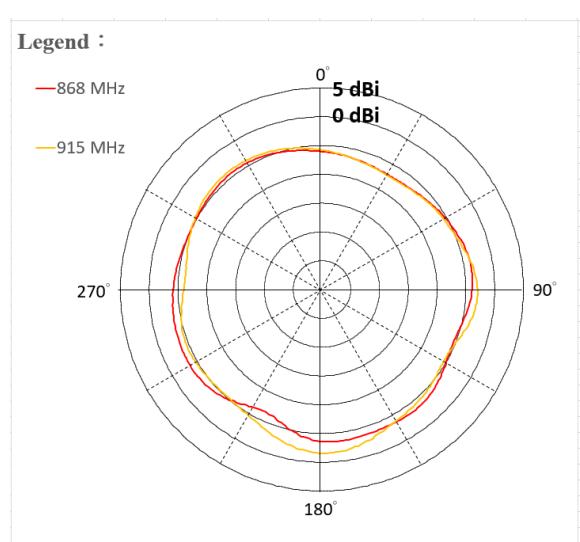
## Azimuth



## Elevation 1

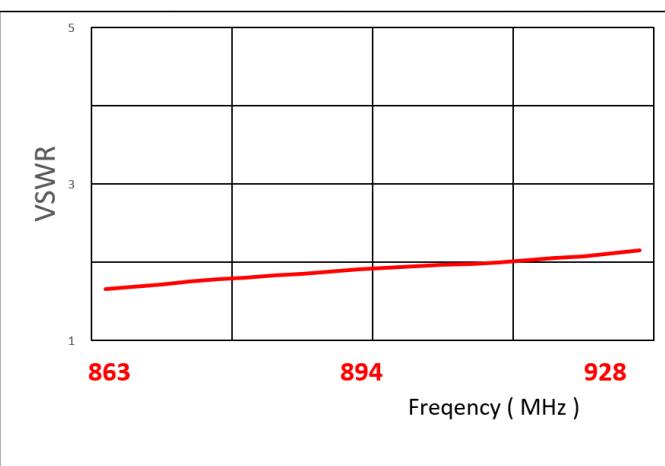
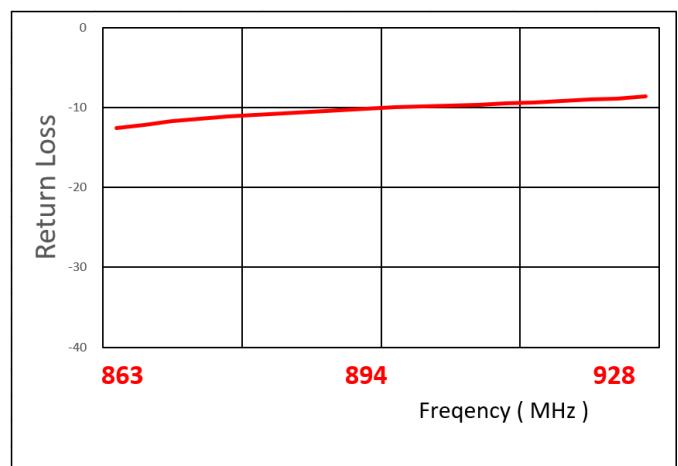
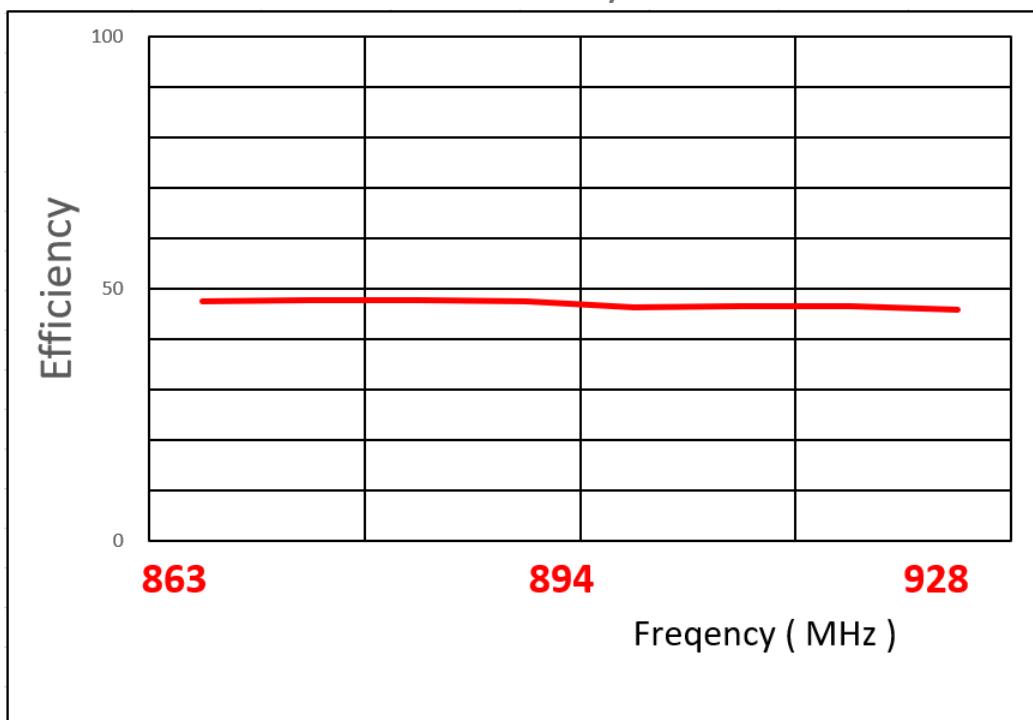


## Elevation 2



P/N : 2195835-1/-2/-3/-5/-6/-7

Data measured in free space and on plastic device enclosure

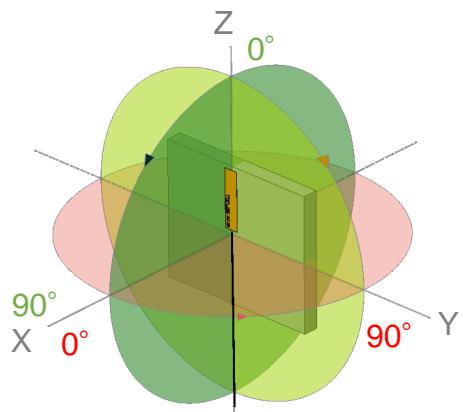
**RF DATA for 200 mm cable length****VSWR****Return Loss****Efficiency**

P/N : 2195835-4/-8

Data measured in free space and on plastic device enclosure

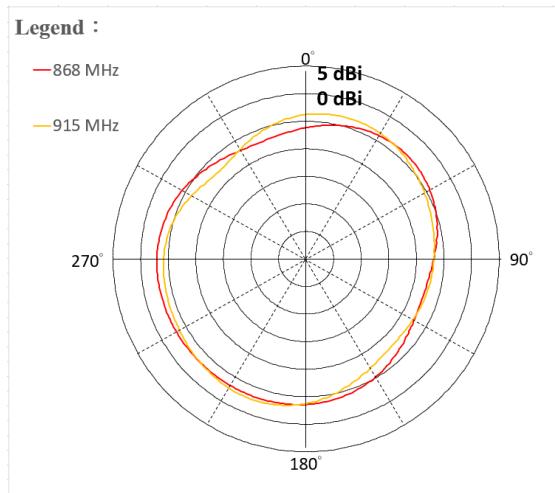
## RADIATION PATTERN for 200 mm cable length

### Test setup

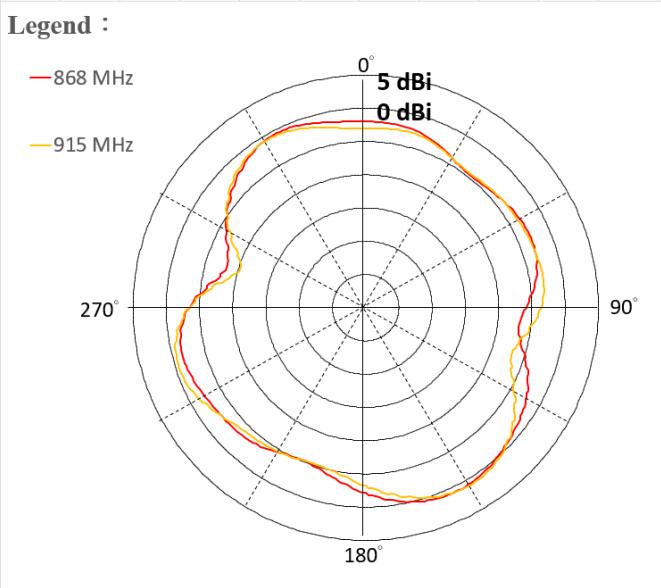


Azimuth Plane  
Elevation 1 Plane  
Elevation 2 Plane

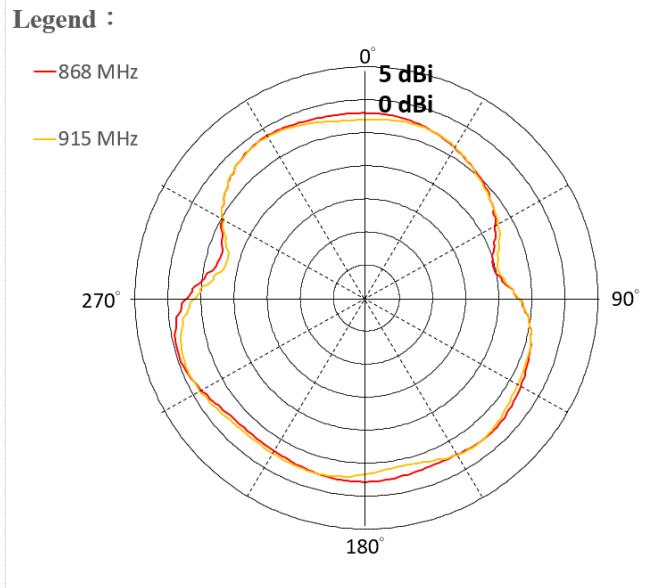
### Azimuth



### Elevation 1



### Elevation 2



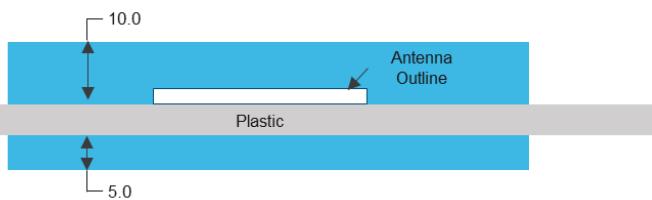
P/N : 2195835-4/-8

Data measured in free space and on plastic device enclosure

# ISM 868 / 915 MHz ANTENNA

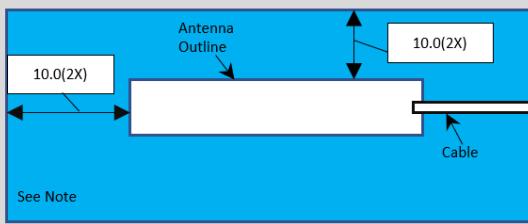
Standard Antenna Solutions

## KEEP OUT AREA



### NOTES

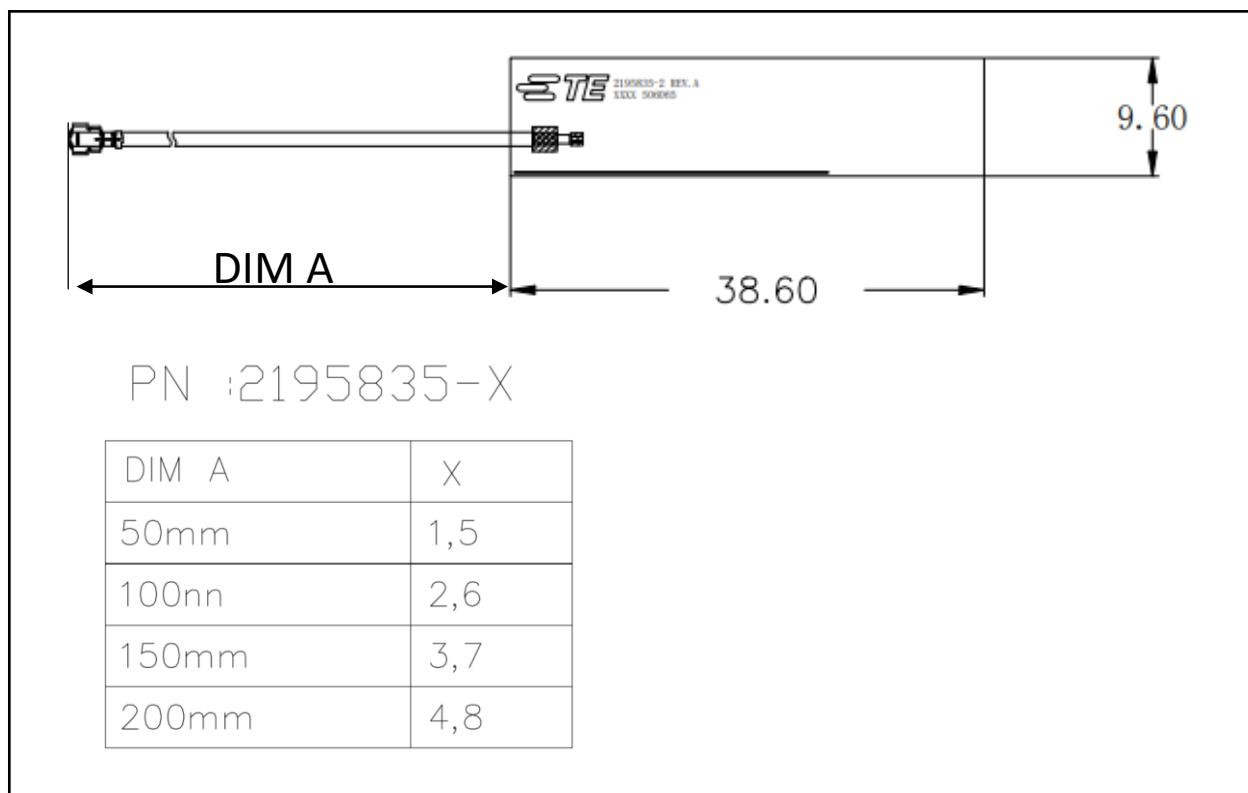
1. Antenna designed to be mounted on plastic cover.
2. Area in blue indicates Keep Out Area
3. Contact TE if keep out zone cannot be guaranteed.



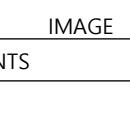
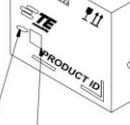
Plastic

Dimension: mm  
Diagrams is not into scale

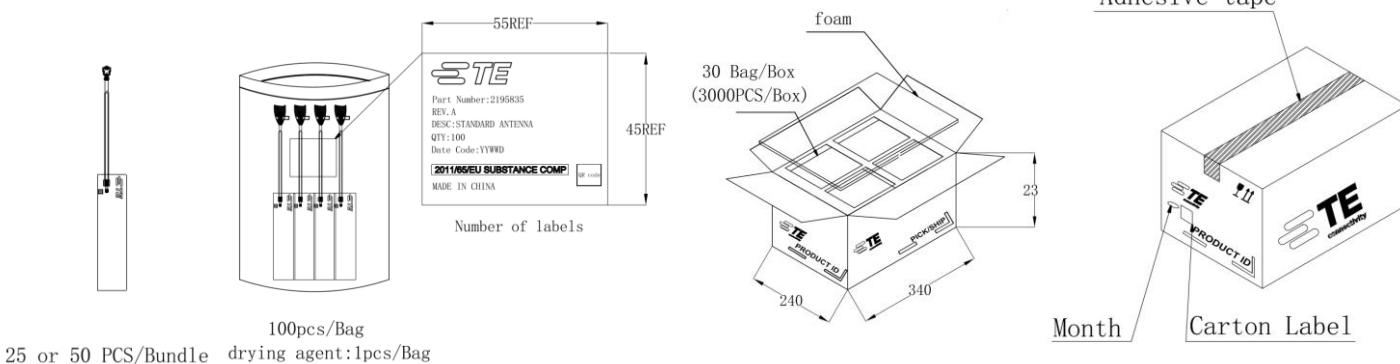
## DIMENSIONS



## MATING COMPONENTS

2195835-1	50	1.97	MHF-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2337019-1)	
2195835-2	100	3.94	MHF-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2337019-1)	
2195835-3	150	5.91	MHF-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2337019-1)	
2195835-4	200	7.87	MHF-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2337019-1)	
2195835-5	50	1.97	MHF4-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2334884-1)	
2195835-6	100	3.94	MHF4-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2334884-1)	
2195835-7	150	5.91	MHF4-TYPE PLUG	1.13	RECEPTACLE (TE PN: 2334884-1)	
2195835-8	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
						MATING COMPONENTS

## PACKAGING



## TE TECHNICAL SUPPORT CENTER

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