



# 5G/4G/3G/2G, NB-IoT, Cat-M, GNSS, Wi-Fi 6 WORLD BAND ANTENNA

Part Numbers: 2195889-1, 2195889-2

## FEATURES & BENEFITS

- Wide Band coverage: LTE, 5G, NB-IoT, Cat-M, GNSS and Wi-Fi 6 Dual Band
- 90 degree hinge type SMA terminal mount
- No matching circuits required
- Similar performance for connection via coax cable and coax connector on PCB

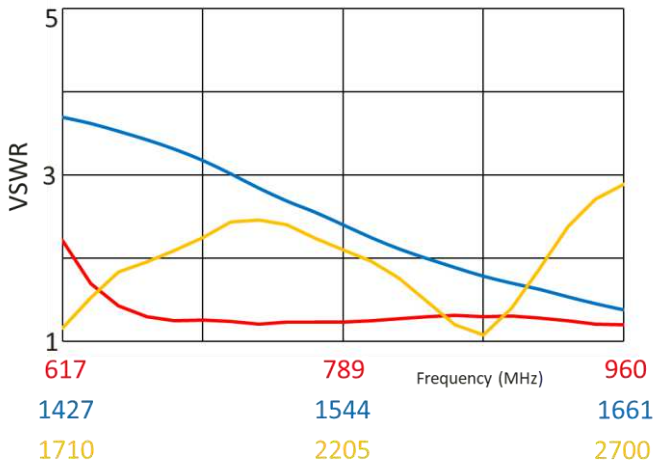
## SPECIFICATIONS

Frequency Range (MHz)	617 - 960	1427-1661	1710-2700	3300-4200	4400-5000	5150-5925
VSWR	< 2.3:1	< 3.7:1	< 2.9:1	< 2.4:1	< 2.1:1	< 2.0:1
Average Efficiency	47 %	63 %	76 %	74 %	64 %	65 %
Peak Gain	1.6 dBi	2.5 dBi	3.7 dBi	1.9 dBi	2.1 dBi	4.5 dBi
Average Gain	-3.3 dBi	-2.3 dBi	-1.3 dBi	-1.3 dBi	-2.0 dBi	-1.9 dBi
Power Handling	10 Watt cw					
Feed Point Impedance	50 ohms unbalanced					
Polarization	Linear					
Size	19.91mm x 135.80 mm (Unfolded) 19.91mm x 115.00 mm (Folded)					
Weight	< 16 g					
Mounting	SMA Male Terminal mount					
Mating Connectors	SMA Female					
Operating Temperature	-40 to +85°C					
Storage Temperature	-40 to +85°C					
Packaging Specification	Bag & Box					
Hazardous Materials	A certificate of conformance is available from the product page on TE website.					

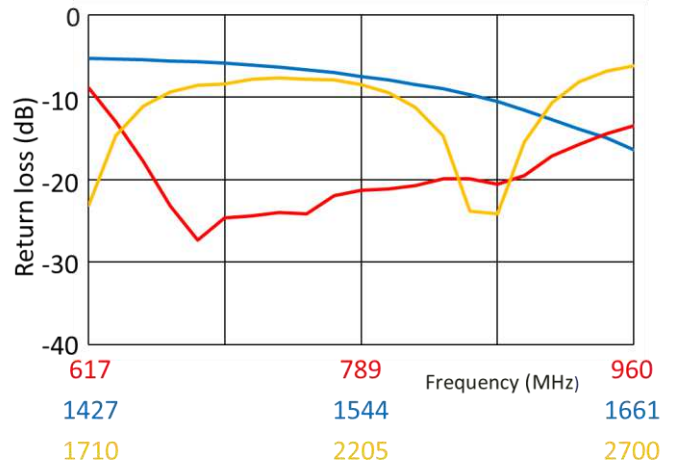
Data measured in free space with hinge at 90 degree bend

## RF DATA

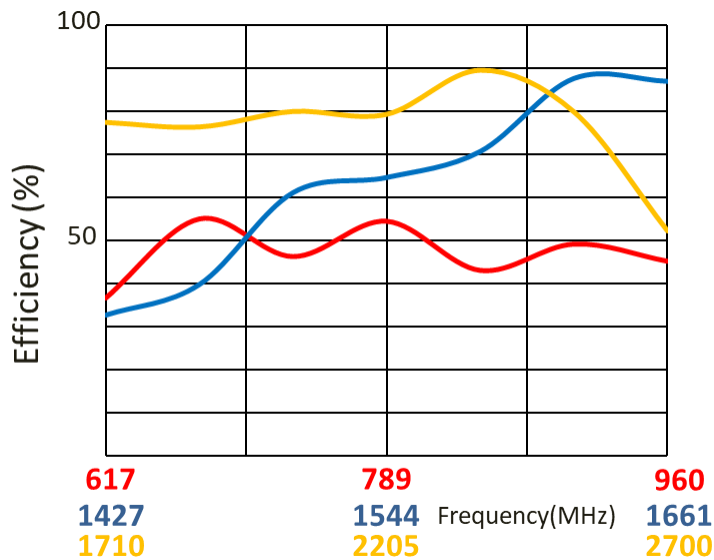
VSWR



Return Loss



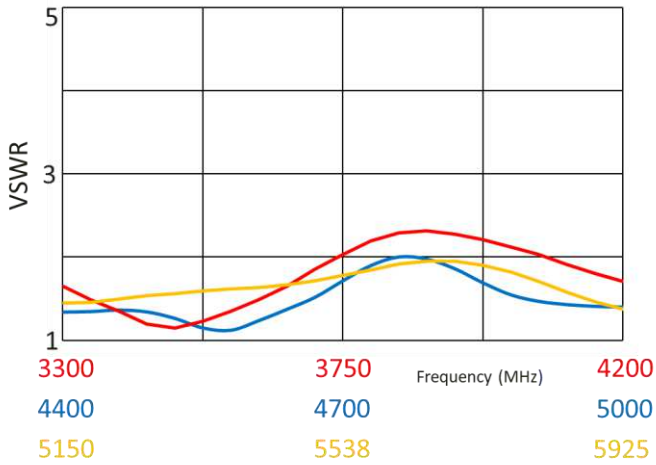
Efficiency



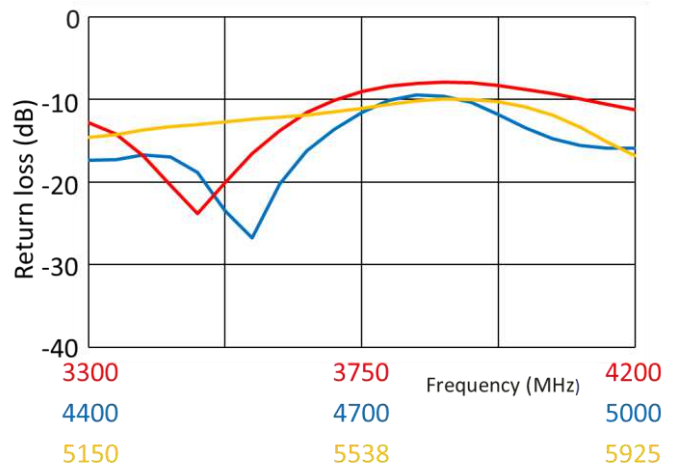
Data measured in free space with hinge at 90 degree bend

## RF DATA

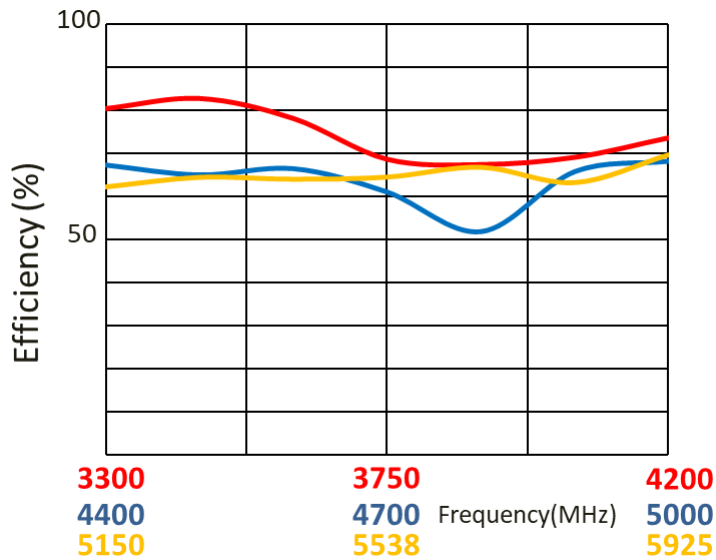
VSWR



Return Loss



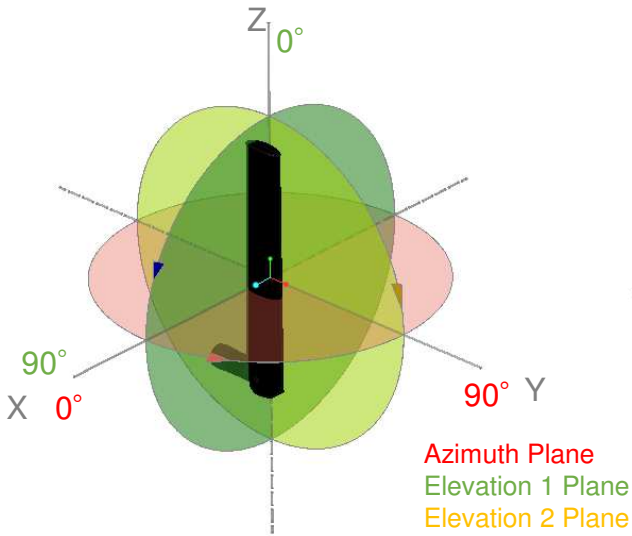
Efficiency



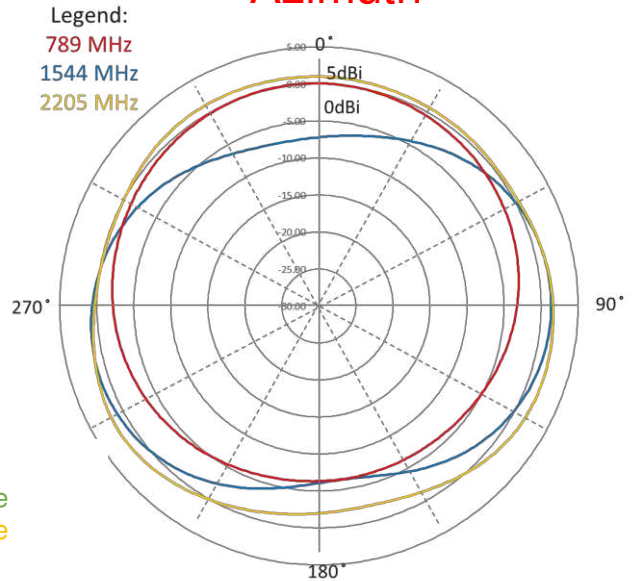
Data measured in free space with hinge at 90 degree bend

# RADIATION PATTERN

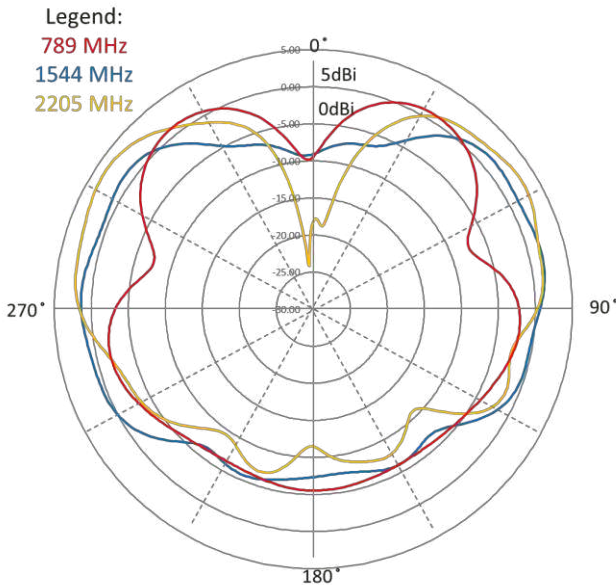
## Test setup



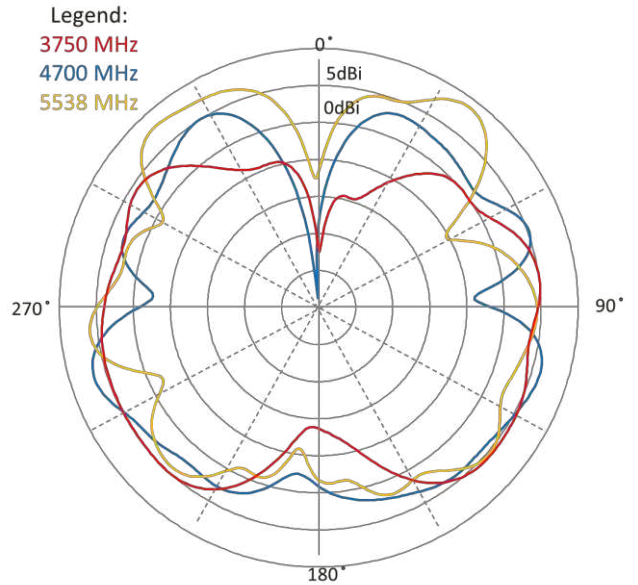
## Azimuth



## Elevation 1



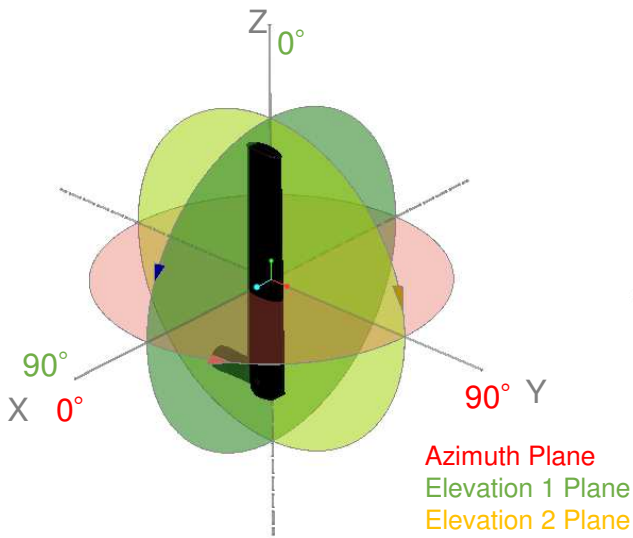
## Elevation 2



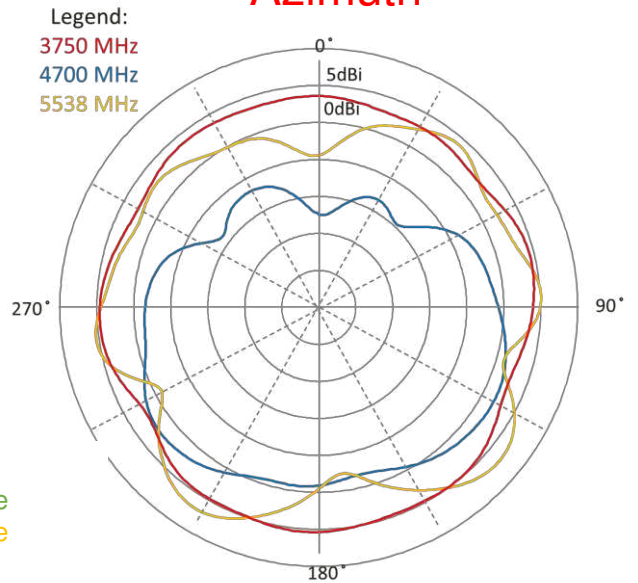
Data measured in free space with hinge at 90 degree bend

# RADIATION PATTERN

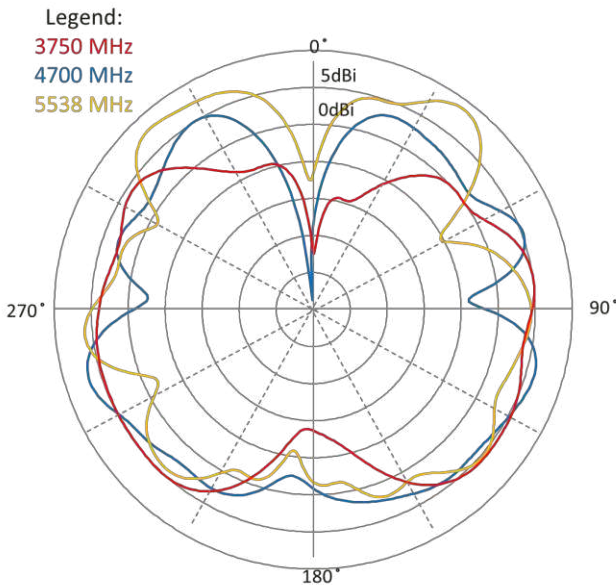
## Test setup



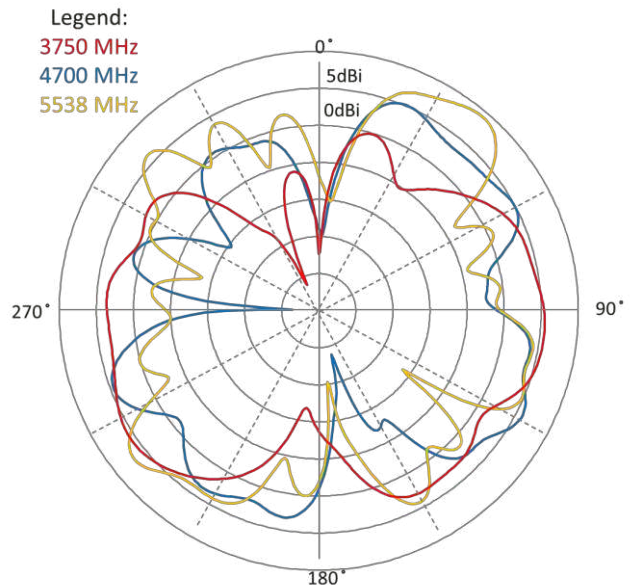
## Azimuth



## Elevation 1

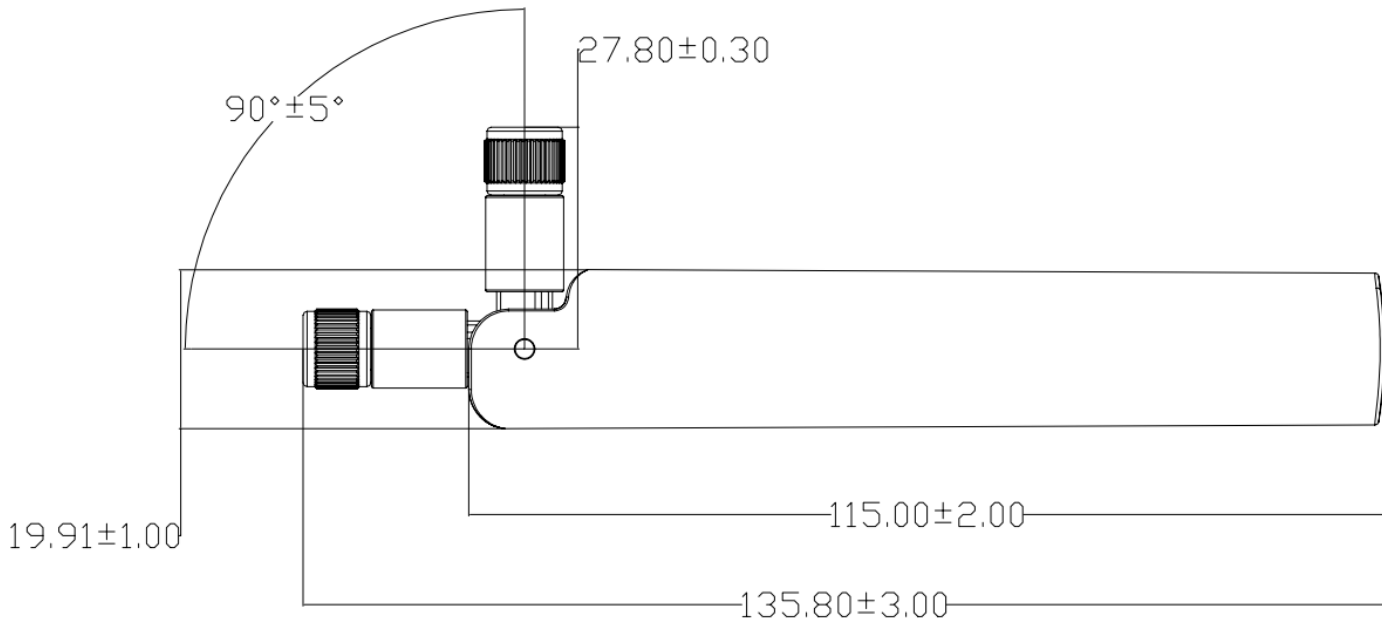


## Elevation 2







Data measured in free space with hinge at 90 degree bend

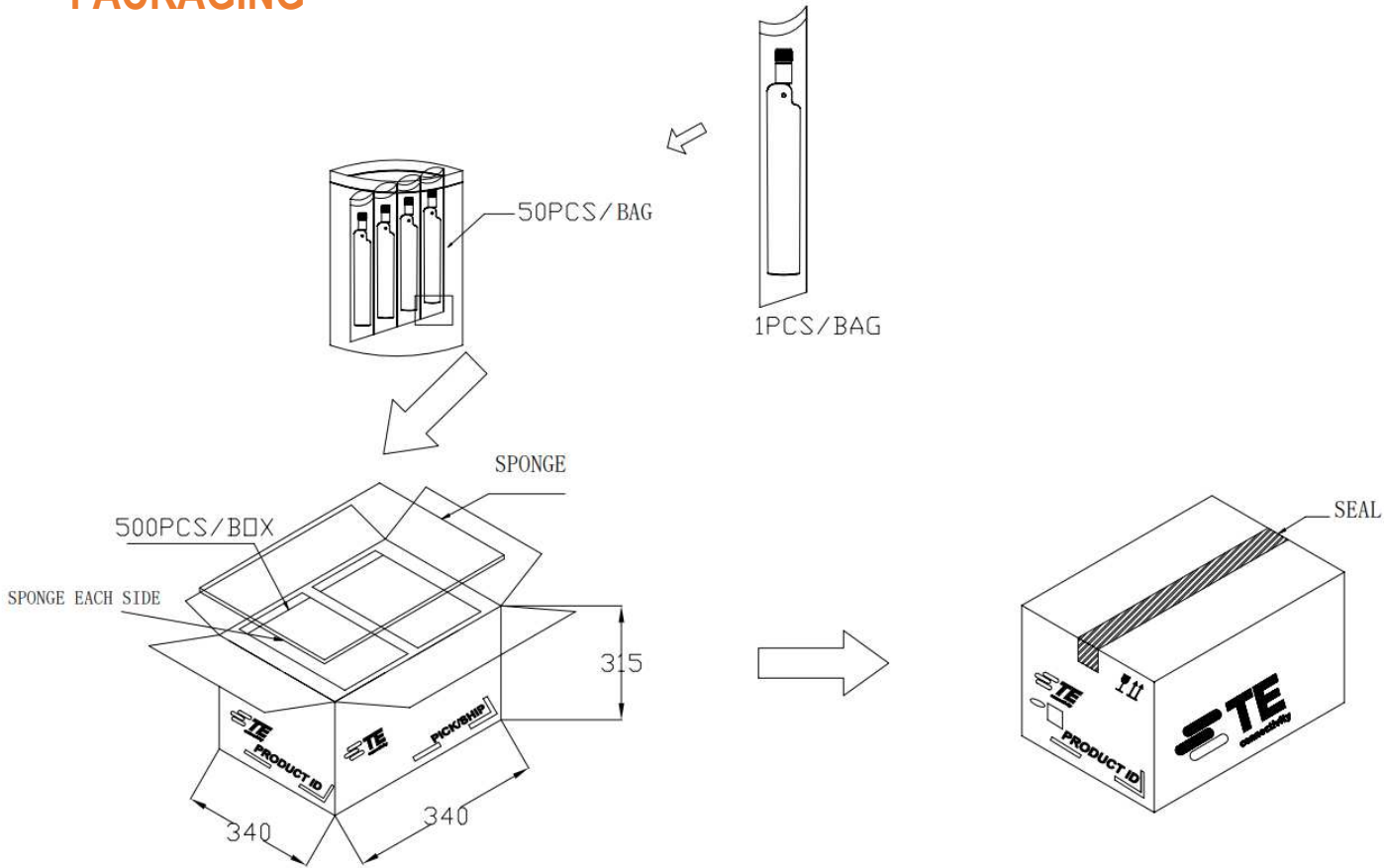
## DIMENSIONS



## MATING COMPONENTS

2195889-2	WHITE	SMA (Male)	5-1814400-2: SMA JACK, RIGHT ANGLE 	2016682-2: SMA GEN1 (MHF type), 1.13 cable, Length=100mm 2016682-4: SMA GEN1 (MHF type), 1.13 cable, Length=200mm 
2195889-1	BLACK	SMA (Male)	5-1814832-2: SMA JACK, VERTICAL 	2016694-2: SMA GEN4 (MHF4 type), 1.13 cable, Length=100mm 2016694-4: SMA GEN4 (MHF4 type), 1.13 cable, Length=200mm 
PART NUMBER	COLOR	CONNECT OR TYPE	RF CONNECTOR	SMA JACK TO MICRO COAX CABLE ASSEMBLIES
MATING COMPONENTS				

## PACKAGING



### TE TECHNICAL SUPPORT CENTER

- USA: +1 (800) 522-6752
- Canada: +1 (905) 475-6222
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- Germany: +49 (0) 6251-133-1999
- UK: +44 (0) 800-267666
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