

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

Part Numbers: 2195846-1, 2195846-2 2195846-3, 2195846-4 2195846-5, 2195846-6 2195846-7, 2195846-8

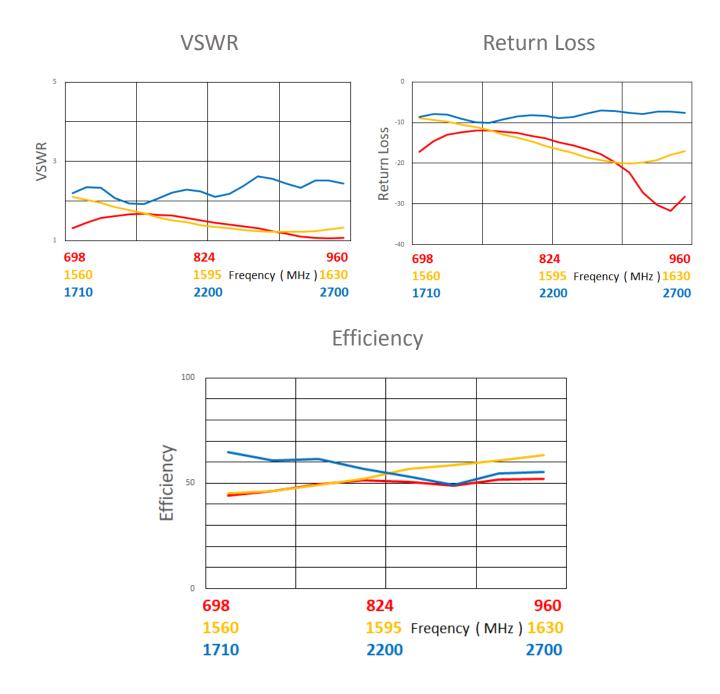
## **FEATURES & BENEFITS**

- Omnidirectional coverage
- Cabled FPC antenna
- Uses MetaSpan technology for World band coverage for 3G, 4G, 5G, NB-IoT and Cat-M
- Wi-Fi 6E triple band, Bluetooth, Zigbee and GNSS L1 included
- Adhesive backing on the FPC simplifies mounting within the device
- Different cable length and connector options available

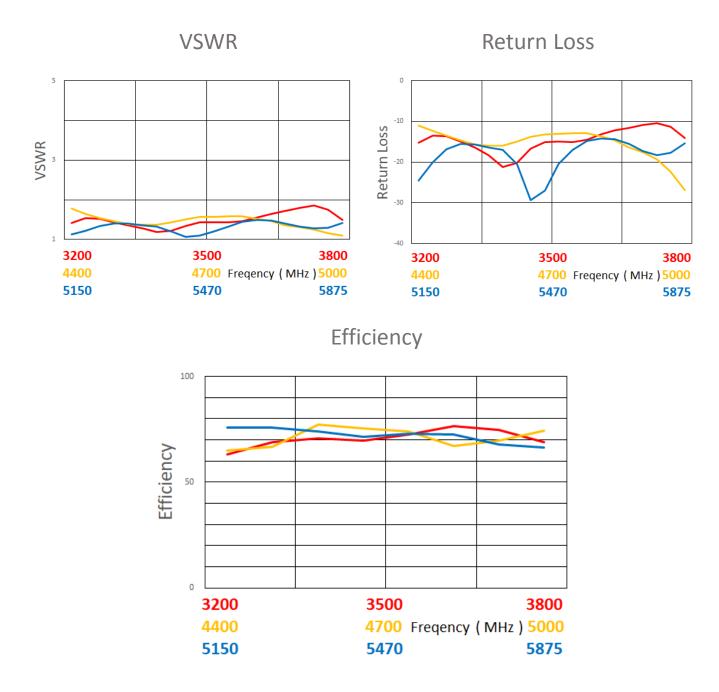
## **SPECIFICATIONS** (Shown as 2195846-4 : Others can vary with different cable lengths.)

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Frequency Range (MHz)	698-960	1560- 1630	1710- 2700	3200- 3800	4400- 5000	5150- 5875	5925- 7125	
VSWR	< 1.7 : 1	< 2.1 : 1	< 2.6 : 1	< 1.9 : 1	< 1.8 : 1	< 1.5 : 1	< 2.3 : 1	
Average Efficiency	49%	54%	57%	71%	71%	72%	59%	
Peak Gain	-1.7 dBi	4.0 dBi	3.2 dBi	3.7 dBi	4.7 dBi	4.2 dBi	6.7 dBi	
Average Gain	-3.1 dBi	-2.7 dBi	-2.4 dBi	-1.5 dBi	-1.5 dBi	-1.4 dBi	-2.3 dBi	
Power Handling	10 Watt cw							
Feed Point Impedance	50 ohms unbalanced							
Polarization	Linear							
Size	80.0 mm x 15.0 mm x 0.2 mm							
Weight	< 1.5 g							
Mounting	Adhesive Tape							
Mating Connector	MHF-type receptacle (TE PN: 2337019-1) MHF4-type receptacle (TE PN: 2344884-1)							
Cable	1.13 mm Dia. & 1.37 mm Dia.							
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 (Shown as 2195846-4: Others can vary with different cable lengths.)



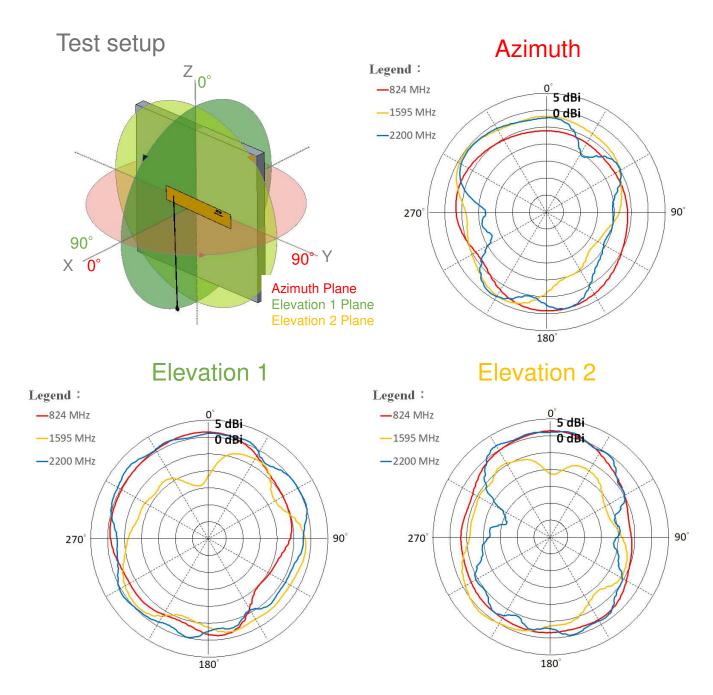
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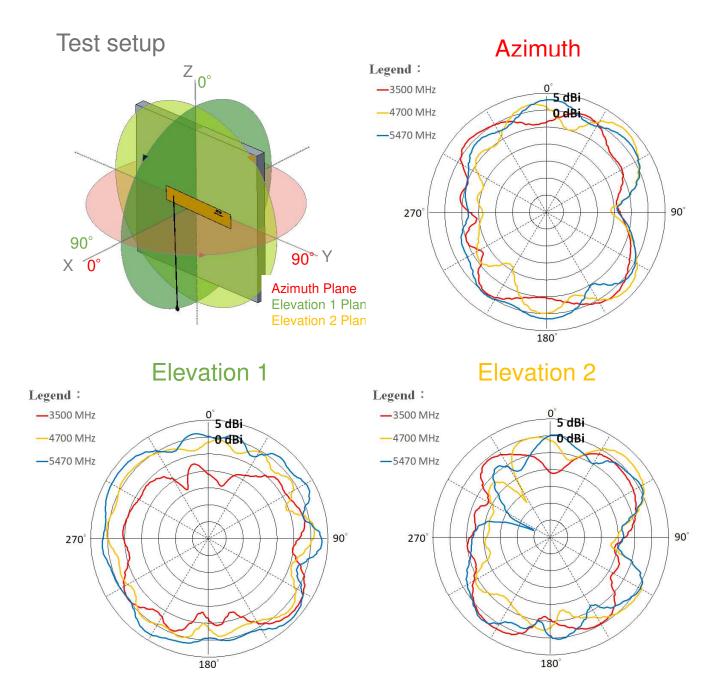
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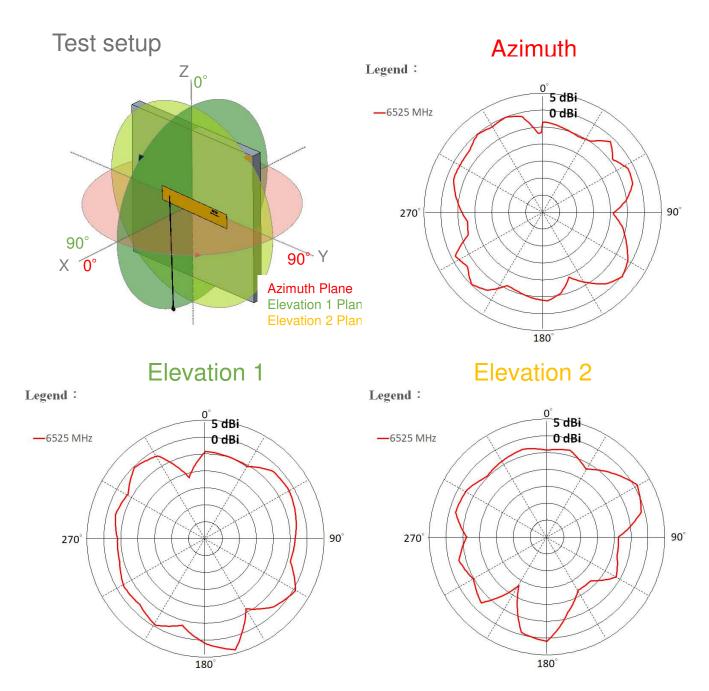
## **RADIATION PATTERN** (Shown as 2195846-4 : Others can vary with different cable lengths)



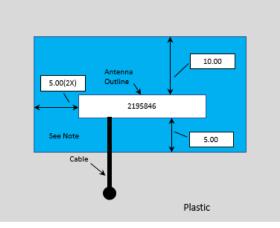
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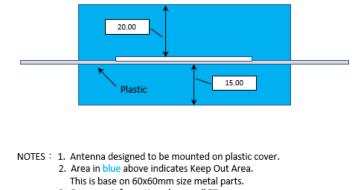


## **RADIATION PATTERN** (Shown as 2195846-4 : Others can vary with different cable lengths)



## **KEEP OUT AREA**

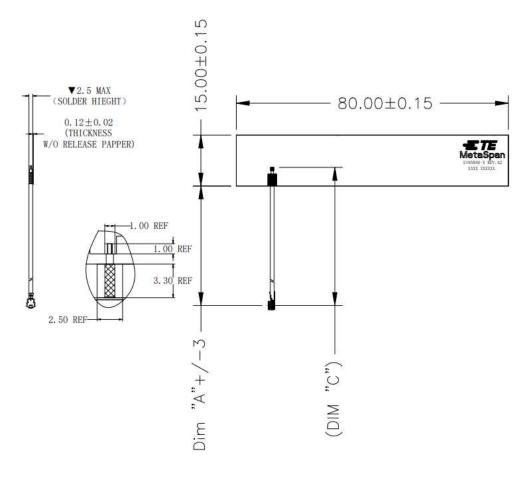




3. For more information please call TE.

Dimensions : mm Diagram is not to scale

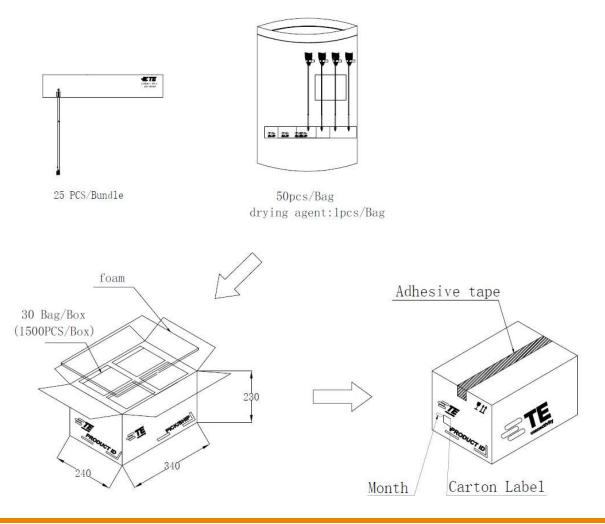




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2195846-1	50.0	1.969	1.37	MHF-TYPE PLUG	RECEPTACLE ( TE PN : 2337019-1 )	
2195846-2	100.0	3. 937	1.37	MHF-TYPE PLUG	RECEPTACLE ( TE PN : 2337019-1 )	$\overline{\mathbf{O}}$
2195846 - 3	150.0	5.906	1.37	MHF-TYPE PLUG	RECEPTACLE ( TE PN: 2337019-1 )	
2195846 - 4	200.0	7.874	1.37	MHF-TYPE PLUG	RECEPTACLE ( TE PN: 2337019-1 )	-
2195846-5	50.0	1.969	1.13	MHF4L-TYPE PLUG	RECEPTACLE ( TE PN : 2334884-1 )	
2195846-6	100.0	3. 937	1.13	MHF4L-TYPE PLUG	RECEPTACLE ( TE PN : 2334884-1 )	
2195846 - 7	150.0	5.906	1.13	MHF4L-TYPE PLUG	RECEPTACLE ( TE PN : 2334884-1 )	
2195846-8	200.0	7.874	1.13	MHF4L-TYPE PLUG	RECEPTACLE ( TE PN : 2334884-1 )	
PART	MM	INCH	MM	CONNECTOD TVDE	PART NUMBER	IMAGE
NUMBER	CABLE LENGTH "A"		CABLE DIA.	CONNECTOR TYPE ( ON CABLE )	MATING COMPONENTS	

## **MATING COMPONENTS**

## PACKAGING



#### TE TECHNICAL SUPPORT CENTER

+1 (800) 522-6752
+1 (905) 475-6222
+52 (0) 55-1106-0800
+54 (0) 11-4733-2200
+49 (0) 6251-133-1999
+44 (0) 800-267666
+33 (0) 1-3420-8686
+31 (0) 73-6246-999
+86 (0) 400-820-6015

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