



# 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**

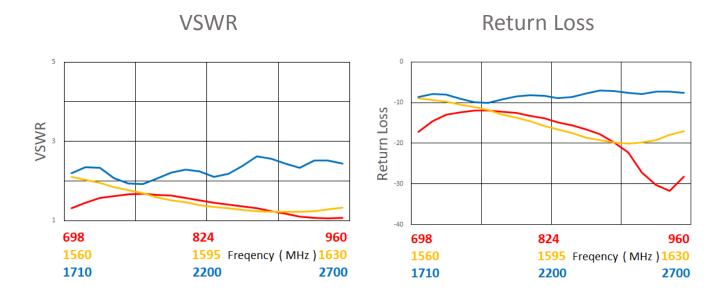
- Omnidirectional coverage
- Cabled FPC antenna
- Uses MetaSpan technology for World band coverage for 3G, 4G, 5G, NB-IoT and Cat-M
- Wi-Fi 6E triple band, Bluetooth, Zigbee and GNSS L1 included
- Adhesive backing on the FPC simplifies mounting within the device
- Different cable length and connector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

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

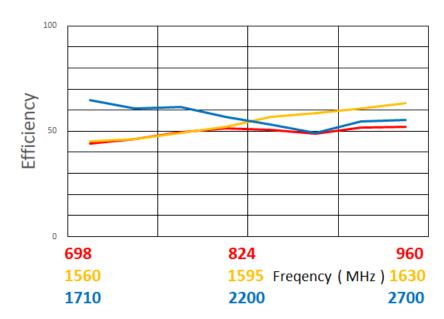
Frequency Range (MHz)	698-960	1560- 1630	1710- 2700	3200- 3800	4400- 5000	5150- 5875	5925- 7125		
VSWR	< 1.7 : 1	< 2.1 : 1	< 2.6 : 1	< 1.9 : 1	< 1.8 : 1	< 1.5 : 1	< 2.3 : 1		
Average Efficiency	49%	54%	57%	71%	71%	72%	59%		
Peak Gain	-1.7 dBi	4.0 dBi	3.2 dBi	3.7 dBi	4.7 dBi	4.2 dBi	6.7 dBi		
Average 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 and MHF4L type, Refer to page 9								
Cable (coaxial)	1.13 mm Dia. & 1.37 mm Dia. Refer to page 9								
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. )

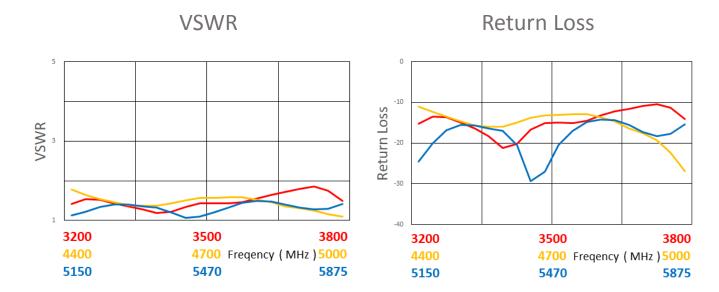


## Efficiency

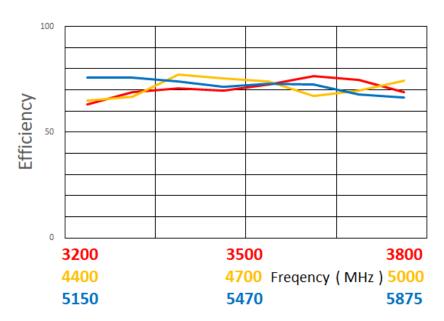




# RF DATA ( Shown as 2195846-4: Others can vary with different cable lengths. )

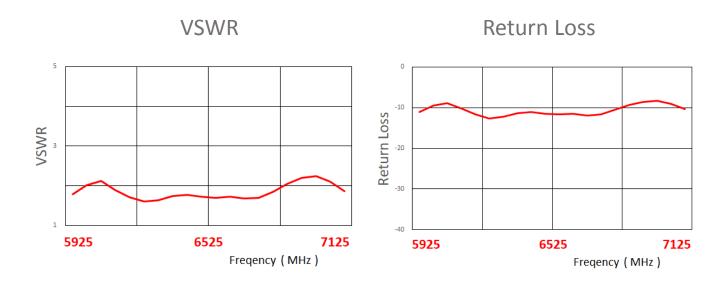


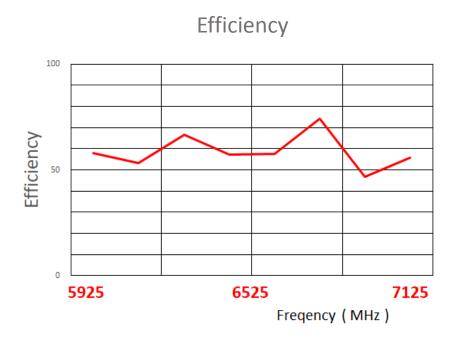
## Efficiency





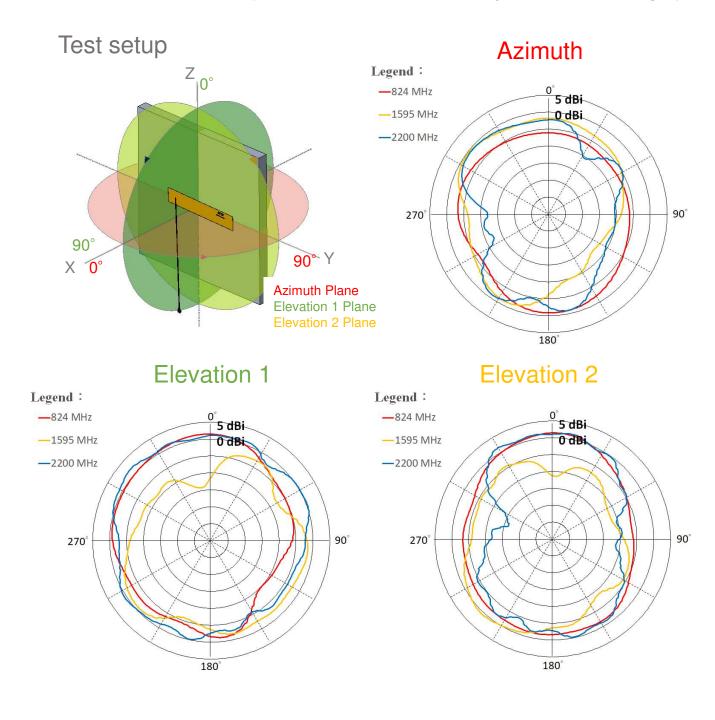
# RF DATA ( Shown as 2195846-4 : Others can vary with different cable lengths. )





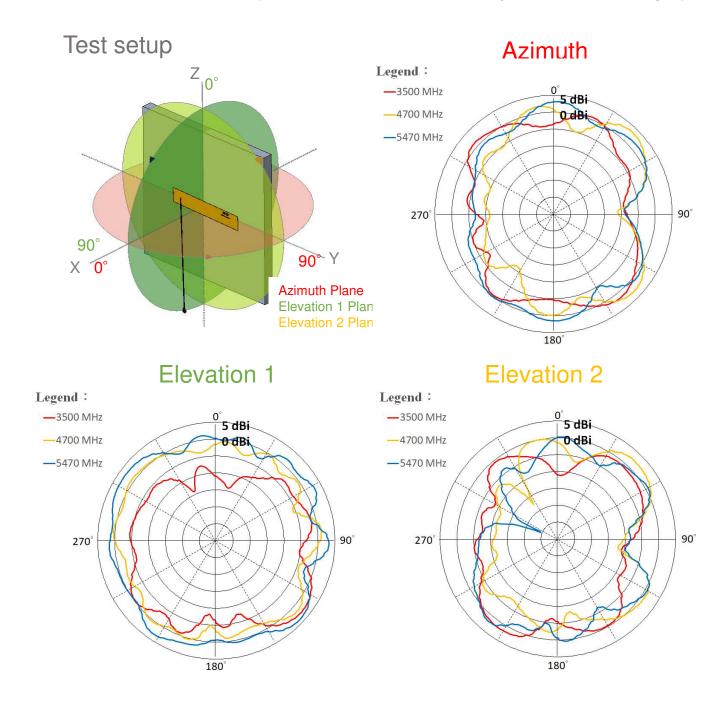


## RADIATION PATTERN (Shown as 2195846-4: Others can vary with different cable lengths)



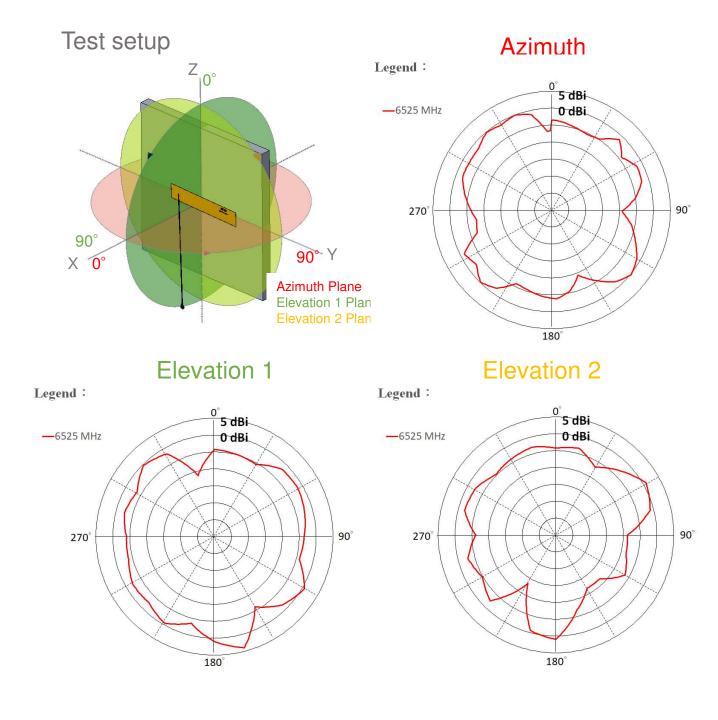


## RADIATION PATTERN (Shown as 2195846-4: Others can vary with different cable lengths)



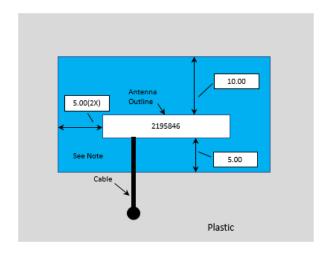


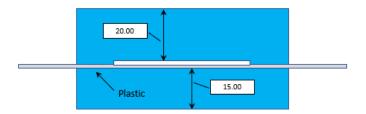
## RADIATION PATTERN (Shown as 2195846-4: Others can vary with different cable lengths)





### **KEEP OUT AREA**



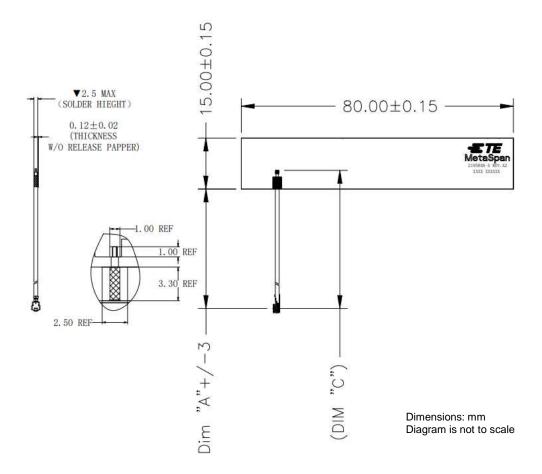


NOTES: 1. Antenna designed to be mounted on plastic cover.

- Area in blue above indicates Keep Out Area.
  This is base on 60x60mm size metal parts.
- 3. For more information please call TE.

Dimensions: mm Diagram is not to scale

#### **DIMENSIONS**

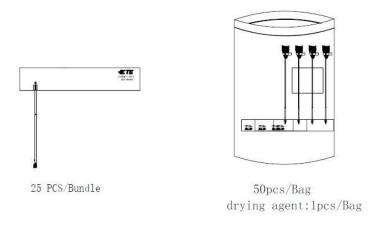


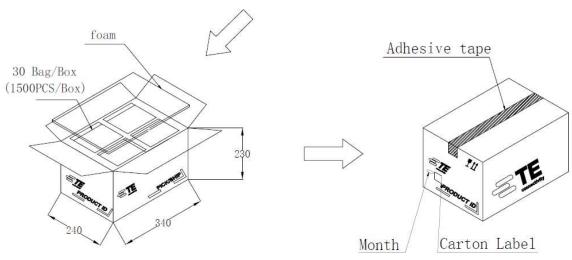


### MATING COMPONENTS TO PART NUMBERS AND DIMENSIONS

2195846-1	50.0	1.969	1.37	MHF-TYPE PLUG	RECEPTACLE ( TE PN: 2337019-1 )		
2195846-2	100.0	100.0 3.937 1.37		MHF-TYPE PLUG	RECEPTACLE ( TE PN: 2337019-1 )		
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	5846-6 100.0 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 )		
DADT	MM	INCH	MM	CONNECTOR TYPE	PART NUMBER	IMAGE	
PART NUMBER	CABLE LENGTH "A"		CABLE DIA.	( ON CABLE )	MATING COMPONENTS		

#### **PACKAGING**





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

Standard Antenna Solutions

#### TE TECHNICAL SUPPORT CENTER

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For phone numbers in other countries, go to te.com/support-center

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