



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

Part Numbers: 2195846-1, 2195846-2

2195846-3, 2195846-4

2195846-5, 2195846-6

2195846-7, 2195846-8

FEATURES & BENEFITS

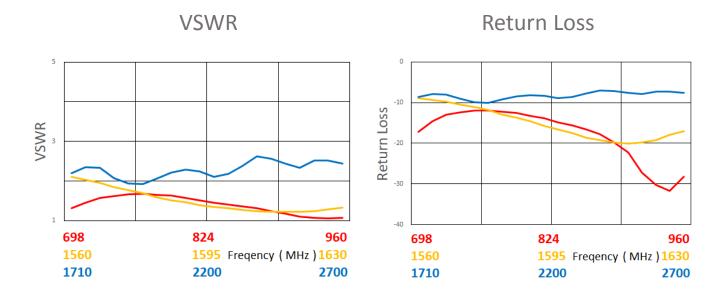
- Omnidirectional coverage
- Cabled FPC antenna
- Uses MetaSpan technology for World band coverage for 3G, 4G, 5G, NB-IoT and Cat-M
- Wi-Fi 6E triple band, Bluetooth, Zigbee and GNSS L1 included
- Adhesive backing on the FPC simplifies mounting within the device
- Different cable length and connector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

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

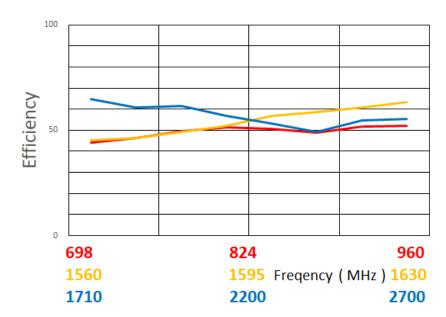
<u> </u>				,		,	,			
Frequency Range (MHz)	698-960	1560- 1630	1710- 2700	3200- 3800	4400- 5000	5150- 5875	5925- 7125			
VSWR	< 1.7 : 1	< 2.1 : 1	< 2.6 : 1	< 1.9 : 1	< 1.8 : 1	< 1.5 : 1	< 2.3 : 1			
Average Efficiency	49%	54%	57%	71%	71%	72%	59%			
Peak Gain	-1.7 dBi	4.0 dBi	3.2 dBi	3.7 dBi	4.7 dBi	4.2 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.)

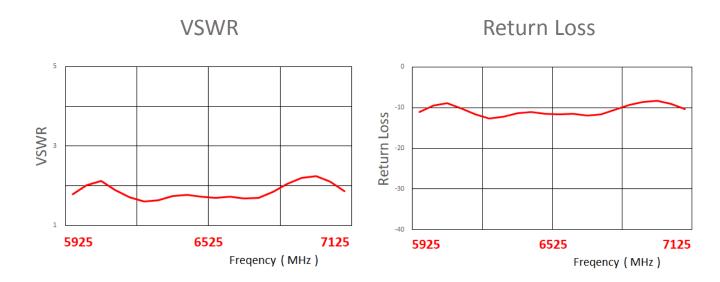


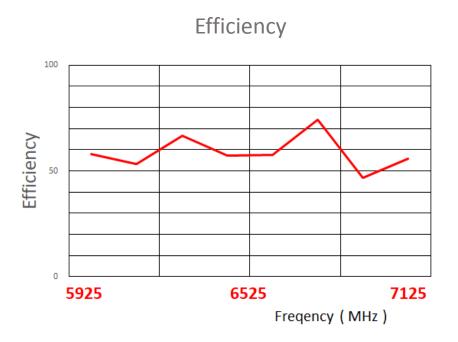
Efficiency





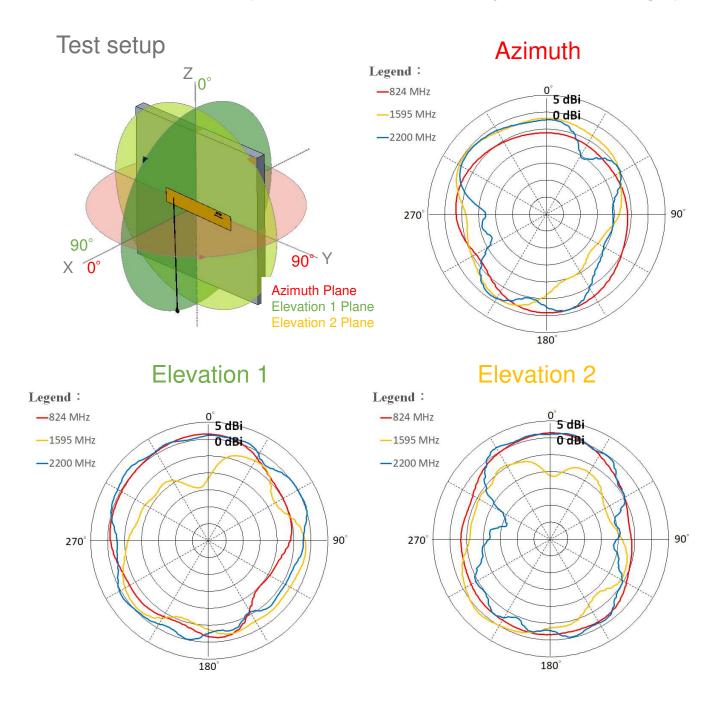
RF DATA (Shown as 2195846-4 : Others can vary with different cable lengths.)





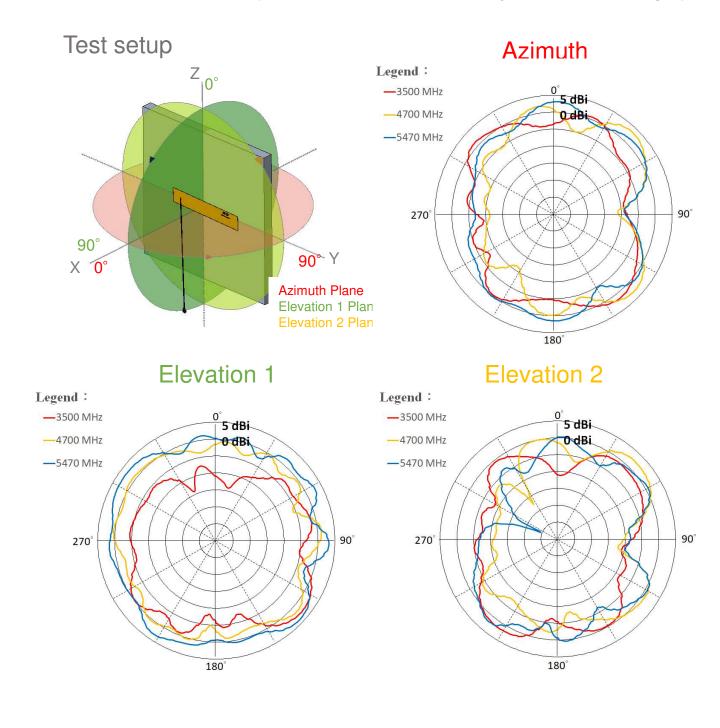


RADIATION PATTERN (Shown as 2195846-4: Others can vary with different cable lengths)



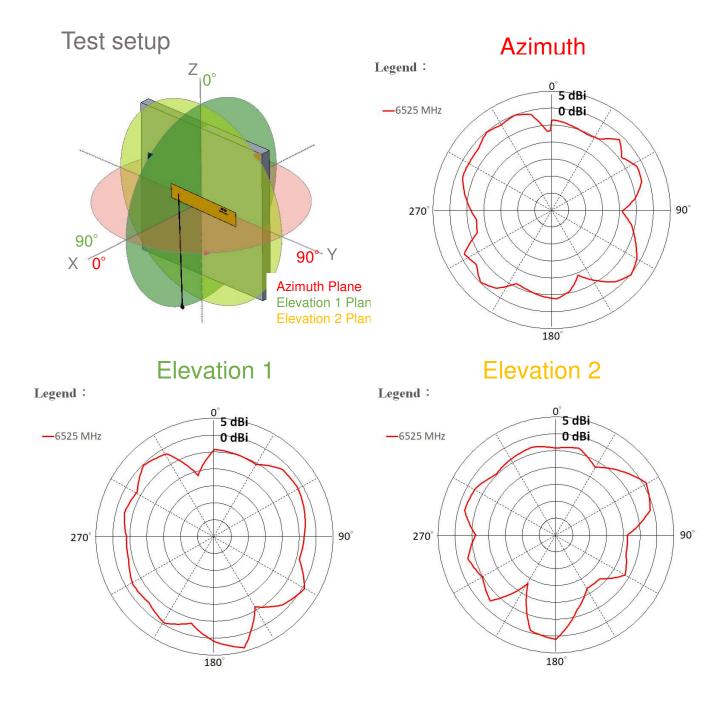


RADIATION PATTERN (Shown as 2195846-4: Others can vary with different cable lengths)



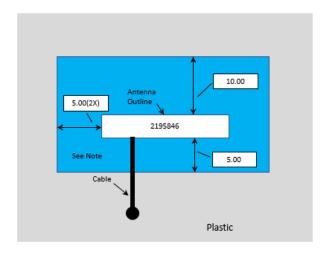


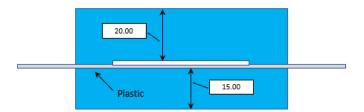
RADIATION PATTERN (Shown as 2195846-4: Others can vary with different cable lengths)





KEEP OUT AREA



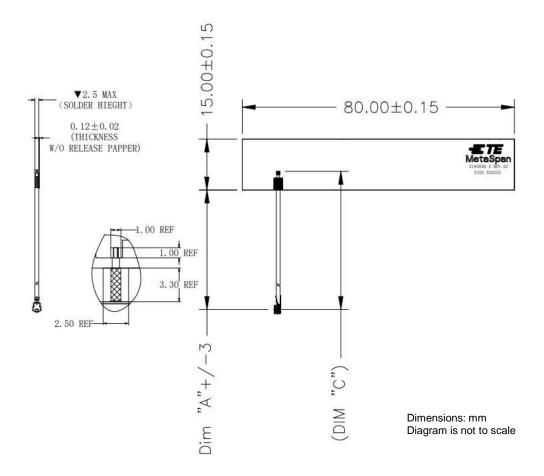


NOTES: 1. Antenna designed to be mounted on plastic cover.

- 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

				1	I I		
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)		
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)	1000	
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	CONNECTOR TYPE	PART NUMBER	IMAGE	
	CABLE LENGTH "A"		CABLE DIA.	(ON CABLE)	MATING COMPONENTS		

PACKAGING

