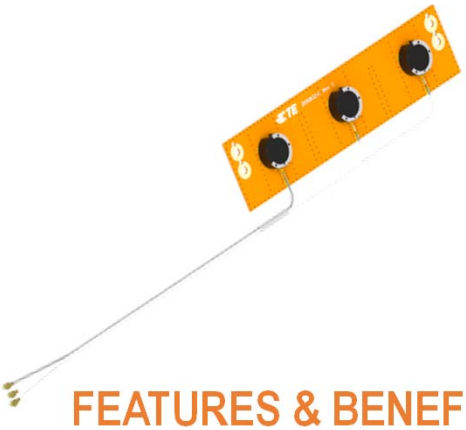


Wi-Fi 3X3 MIMO DUAL BAND ANTENNA ASSEMBLY

Part Numbers: 2108802-1
2108802-2
2108802-3

FEATURES & BENEFITS

- Wi-Fi 6 3x3 MIMO Dual band antenna assembly
- Screw mount chassis assembly
- Cable length x1, x2, x3, Connector: MHF or compatible
- Spherical omnidirectional radiation pattern
- Minimal peak gain, reduced SINR

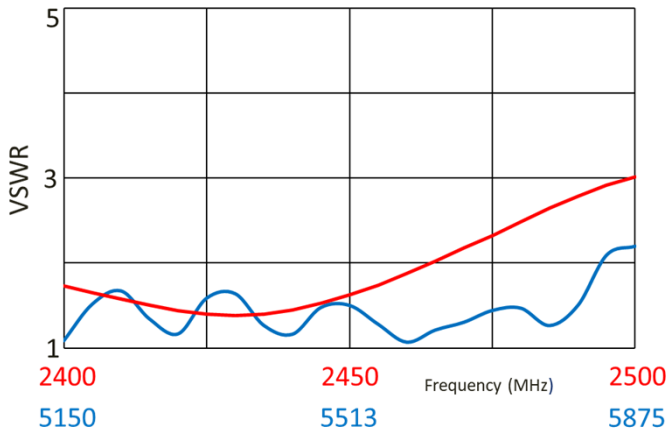
SPECIFICATIONS (Shown as 2108802-1 : Others can vary with different cable lengths.)

P/N	PUCK-Left		PUCK-Center		PUCK-Right	
Frequency Range (MHz)	2400-2500	5150-5875	2400-2500	5150-5875	2400-2500	5150-5875
VSWR	< 3.1:1	< 2.3:1	< 2.4:1	< 2.3:1	< 2.5:1	< 2.1:1
Average Efficiency(%)	34	35	36	35	36	34
Peak Gain(dBi)	0.2	1.5	0.2	1.1	0.9	1.1
Average Gain(dBi)	-4.8	-4.7	-4.6	-4.8	-4.5	-4.8
Isolation(dB)	< -20 in 2400-2500MHz; <-22 in 5150-5875MHz					
Power Handling	10 Watt cw					
Feed Point Impedance	50 ohms unbalanced					
Polarization	Linear					
Size	150.0 mm x 34.0 mm x 7.02 mm					
Weight	< 25 g					
Mounting	Screw Mount					
Mating Connector	MHF-type receptacle (TE PN 2337019-1)					
Cable	Coaxial Cable : 1.37mm 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.					

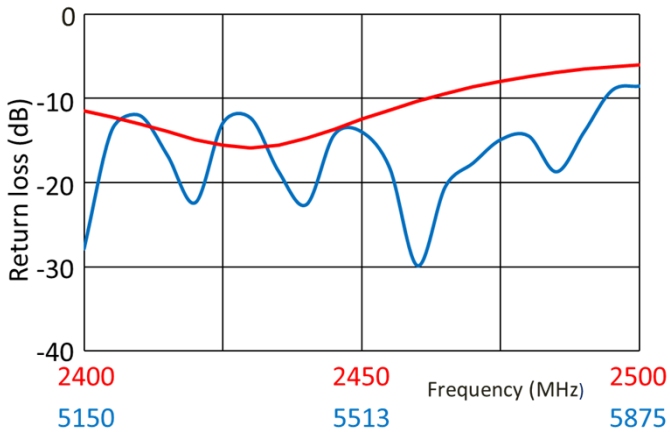
RF DATA (PUCK-Left)

(Shown as 2108802-1 : Others can vary with different cable lengths.)

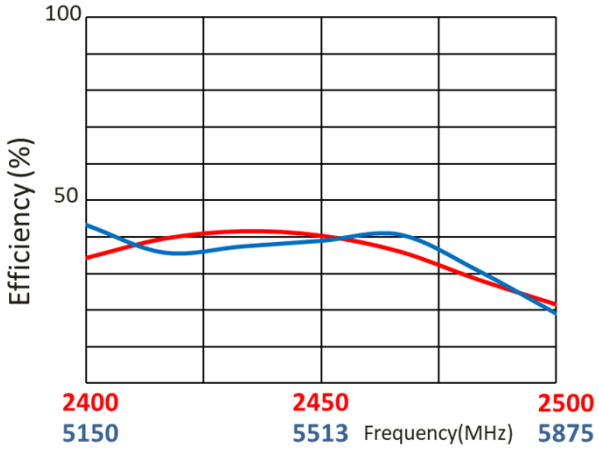
VSWR



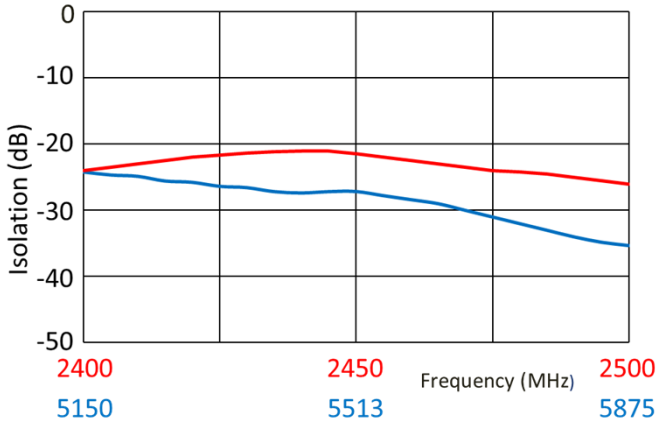
Return Loss



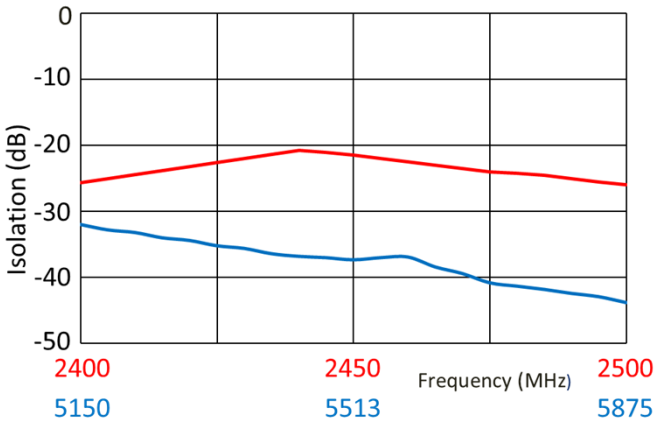
Efficiency



Isolation S_{CL}



Isolation S_{RL}

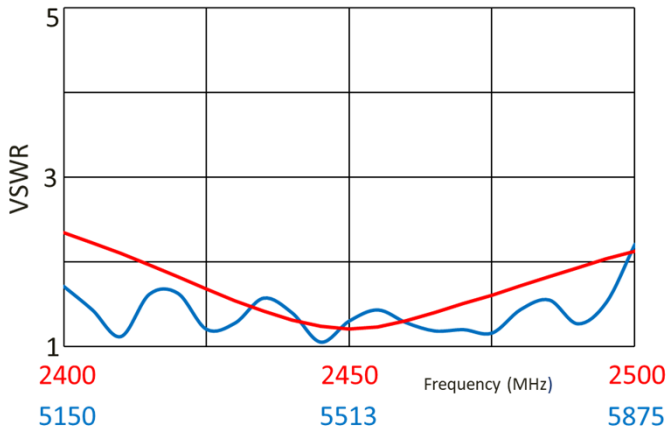


Data measured in free space and on plastic device enclosure

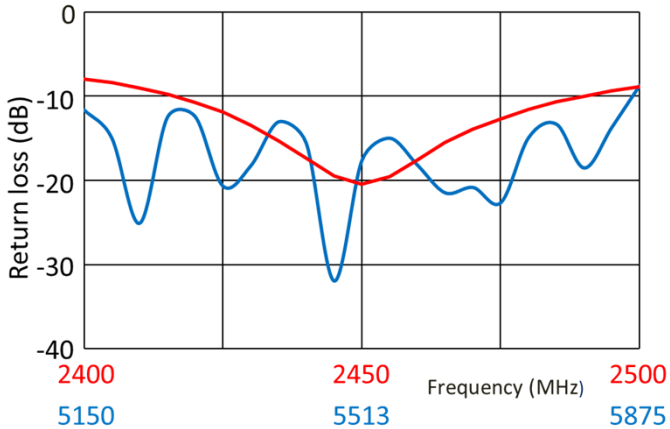
RF DATA (PUCK-Center)

(Shown as 2108802-1 : Others can vary with different cable lengths.)

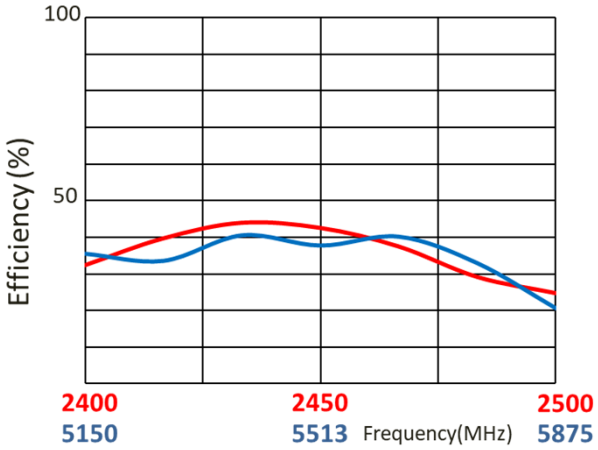
VSWR



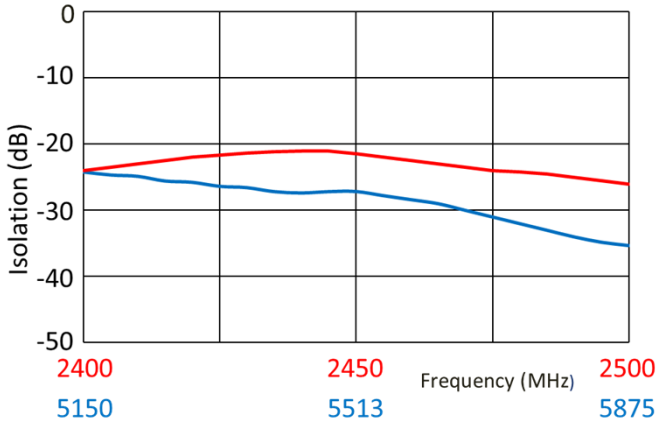
Return Loss



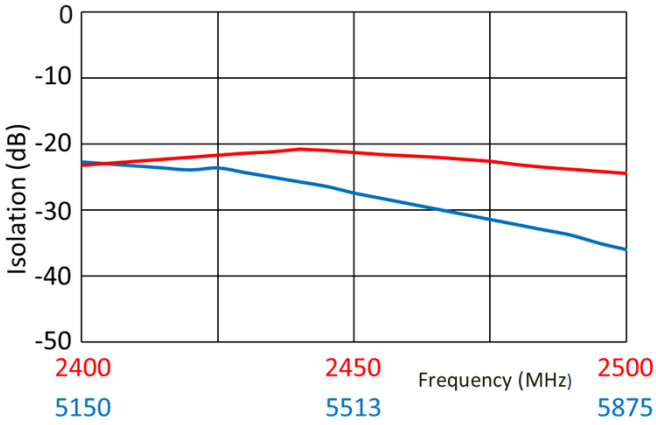
Efficiency



Isolation S_{LC}



Isolation S_{RC}

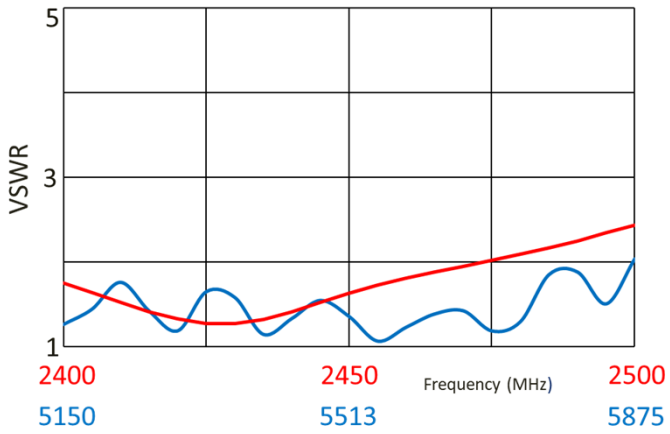


Data measured in free space and on plastic device enclosure

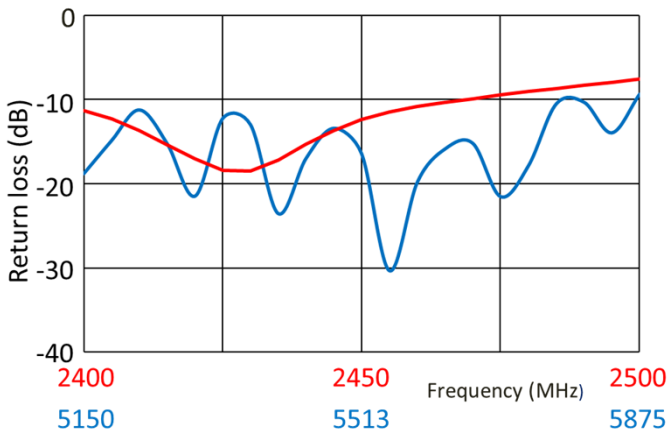
RF DATA (PUCK-Right)

(Shown as 2108802-1 : Others can vary with different cable lengths.)

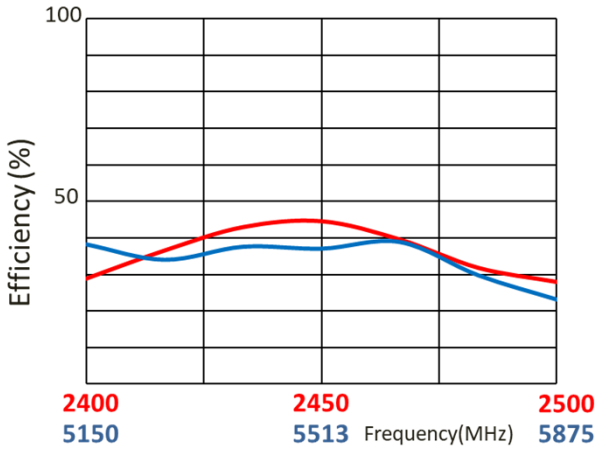
VSWR



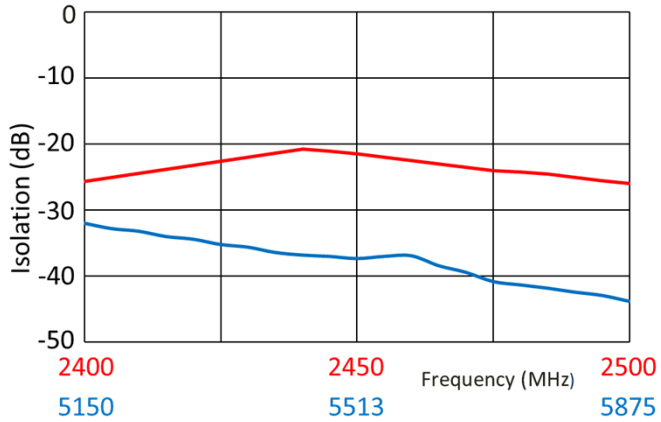
Return Loss



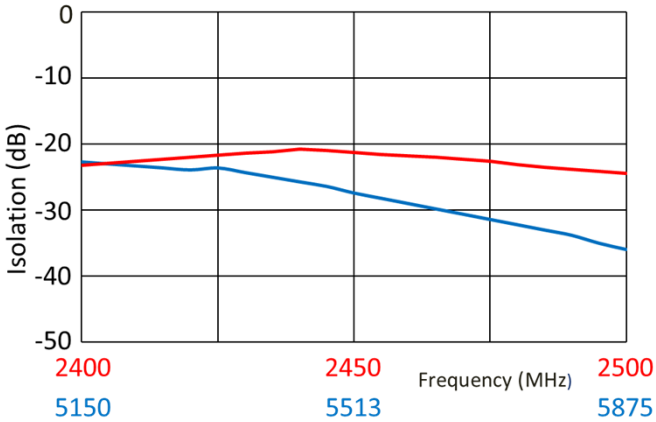
Efficiency



Isolation S_{LR}



Isolation S_{CR}

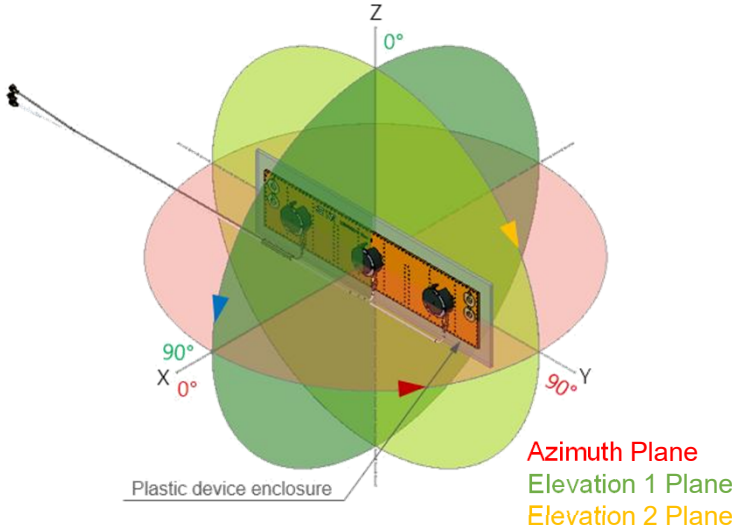


Data measured in free space and on plastic device enclosure

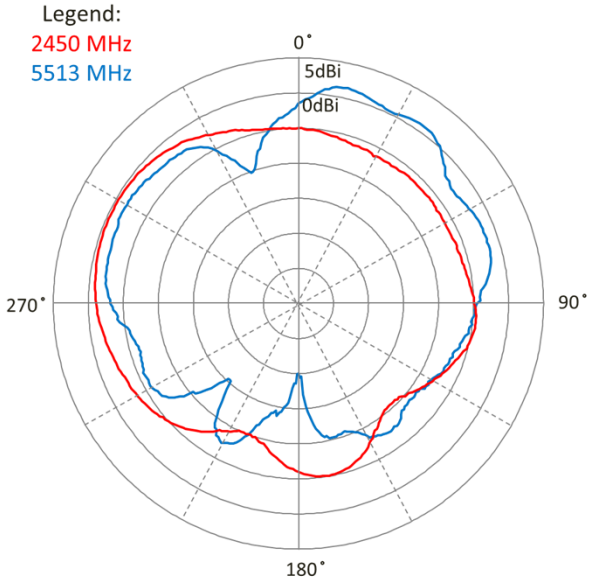
RADIATION PATTERN (PUCK-Left)

(Shown as 2108802-1 : Others can vary with different cable lengths.)

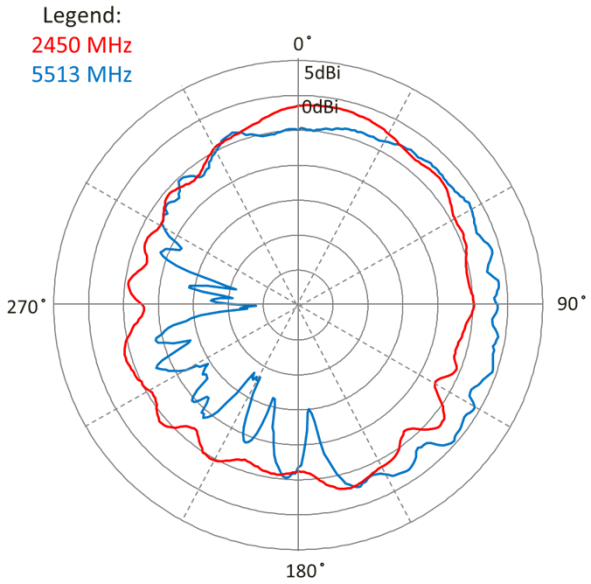
Test setup



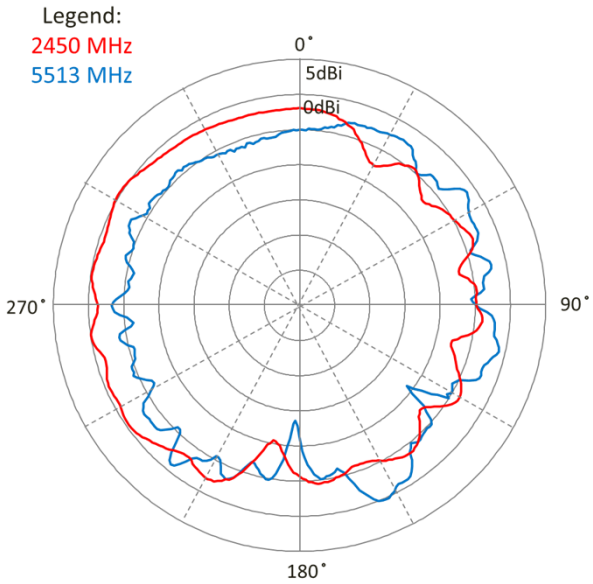
Azimuth



Elevation 1



Elevation 2

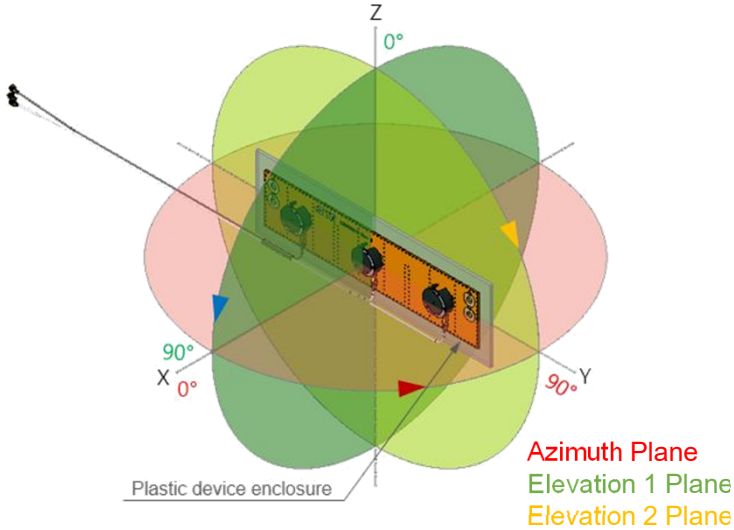


Data measured in free space and on plastic device enclosure

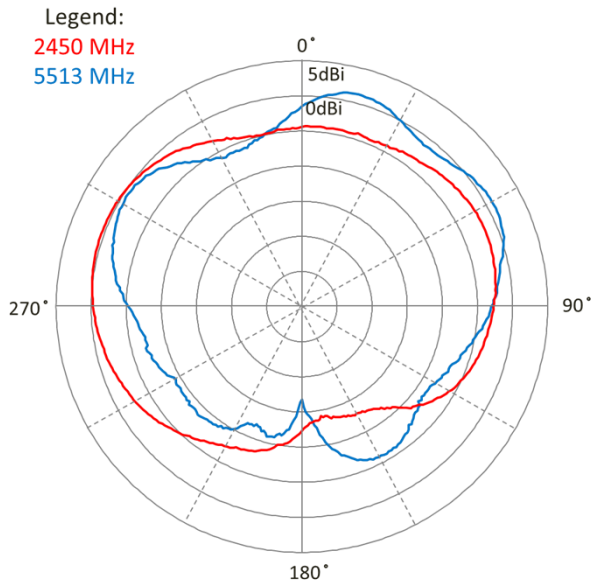
RADIATION PATTERN (PUCK-Center)

(Shown as 2108802-1 : Others can vary with different cable lengths.)

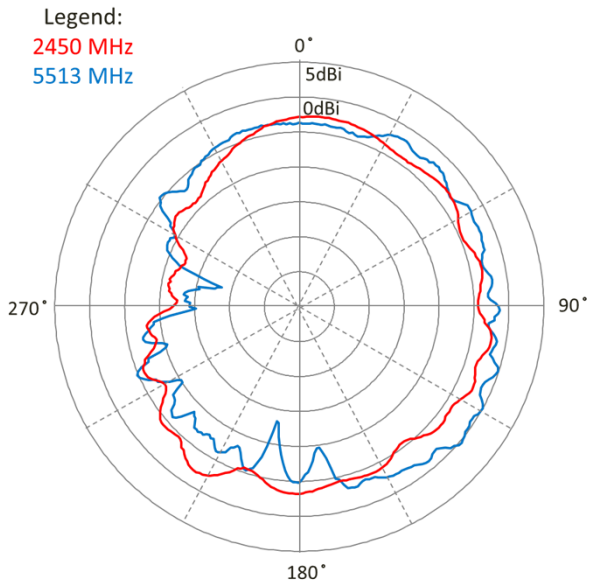
Test setup



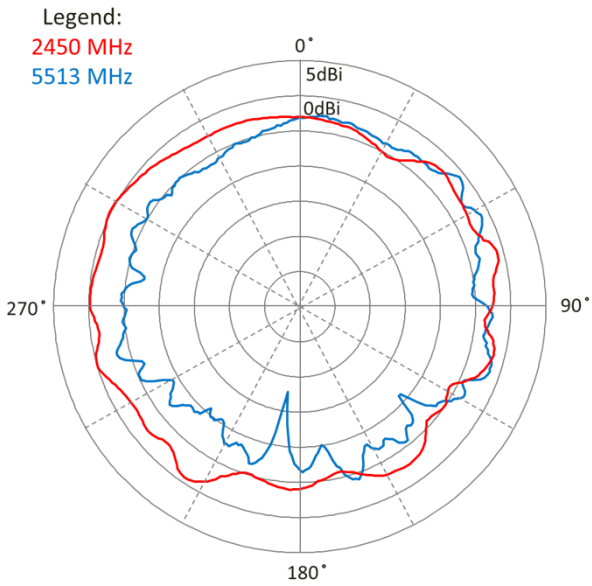
Azimuth



Elevation 1



Elevation 2

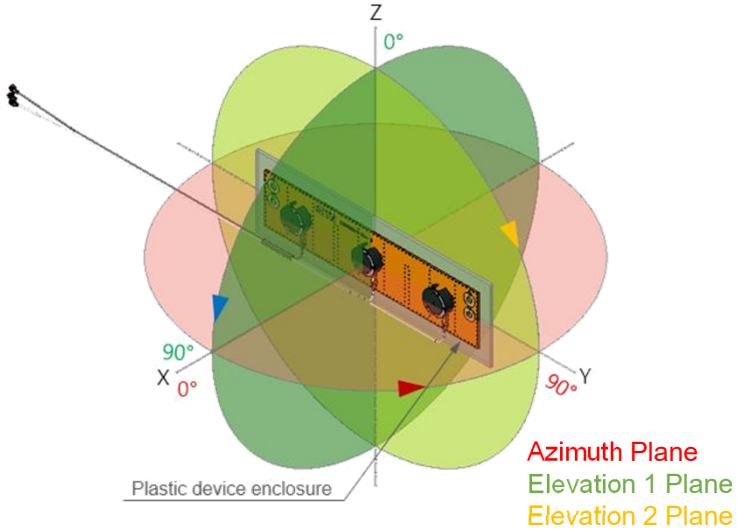


Data measured in free space and on plastic device enclosure

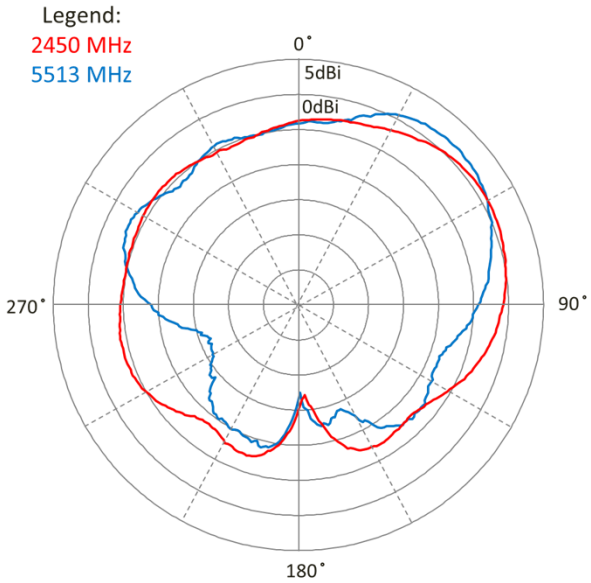
RADIATION PATTERN (PUCK-Right)

(Shown as 2108802-1 : Others can vary with different cable lengths.)

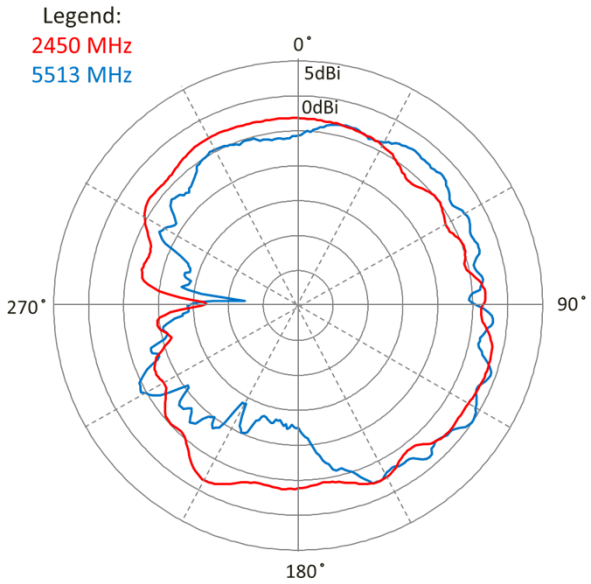
Test setup



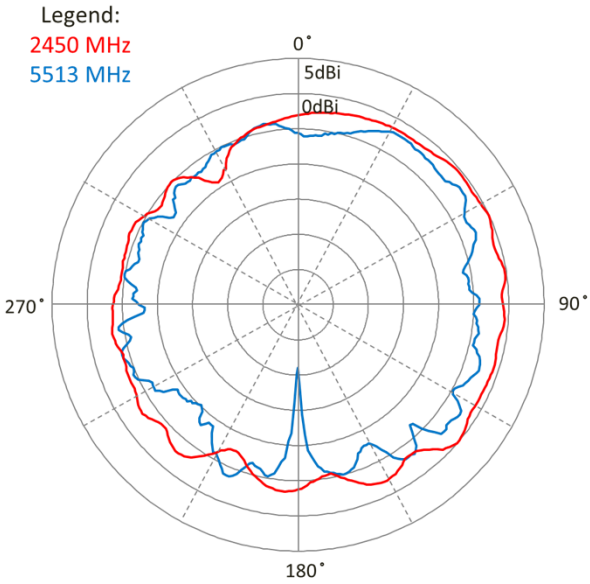
Azimuth



Elevation 1

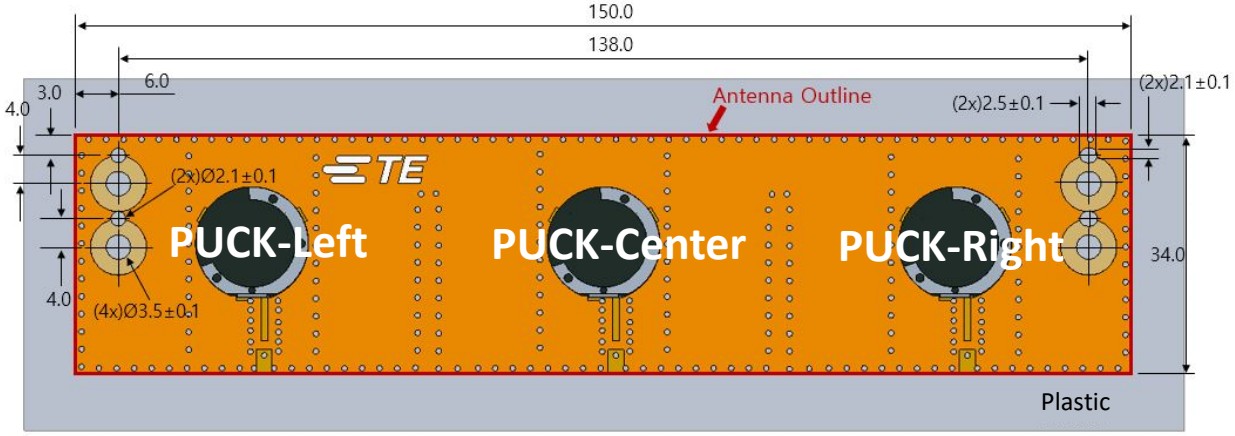


Elevation 2



Data measured in free space and on plastic device enclosure

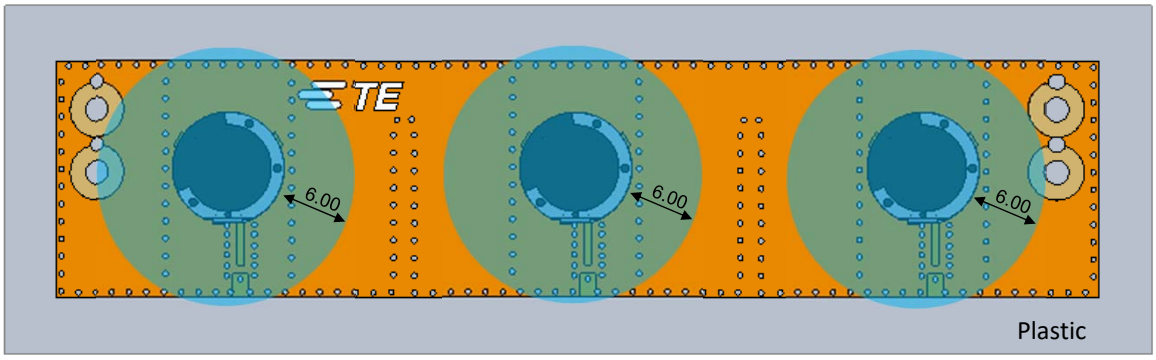
MOUNTING GUIDE

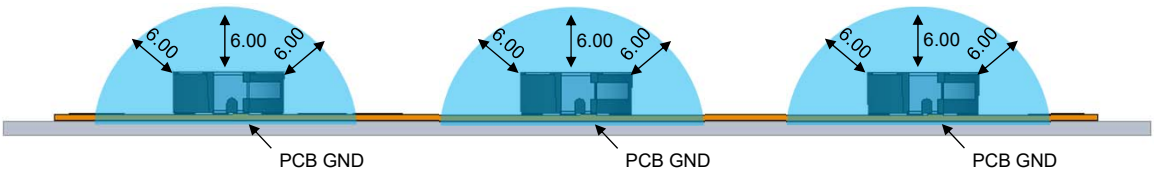


Dimensions: mm
Diagram is not to scale

NOTES: 1. No copper allowed in designated area on all PCB layers –
2. For more information please call TE.

KEEP OUT AREA

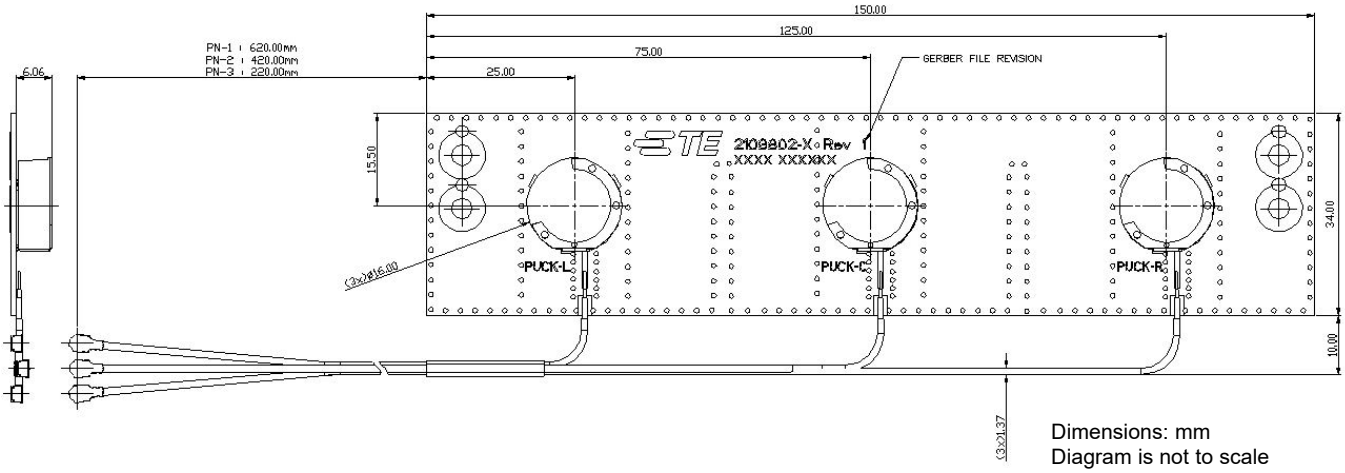




NOTES:1. Antenna designed to be mounted by screw.
2. Area in blue above indicates Keep Out Area.
3. For more information please call TE.

Dimensions: mm
Diagram is not to scale

DIMENSIONS

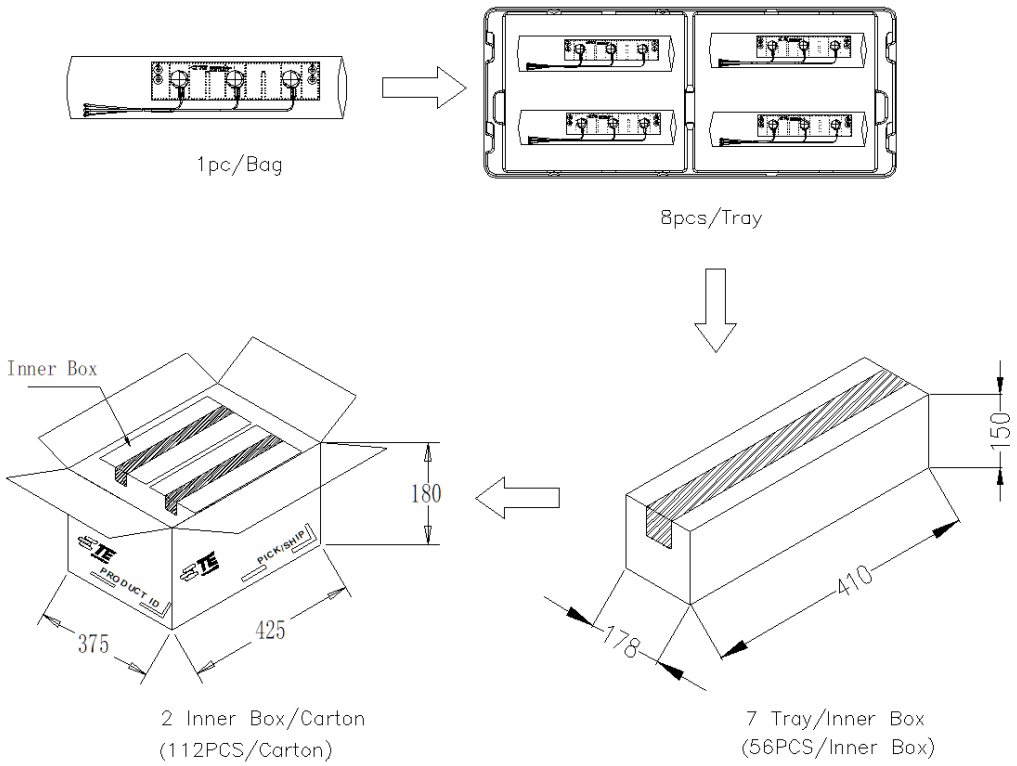


Dimensions: mm
Diagram is not to scale

MATING COMPONENTS

2108802-3	220.0	8.661	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2108802-2	420.0	16.535	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2108802-1	620.0	24.409	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
PART NUMBER	MM	INCH	CONNECTOR TYPE (ON CABLE)	PART NUMBER	IMAGE
	CABLE LENGTH			MATING COMPONENTS	

PACKAGING



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02/2021