Wi-Fi 6/ 6E TRIPLE BAND EMBEDDED ANTENNA

Part Numbers: 2108857-1, 2108857-2
2108857-3, 2108857-4
2108857-5, 2118857-6
2108857-7, 2108857-8
2108857-9, 1-2108857-1,
1-2108857-2, 1-2108857-3
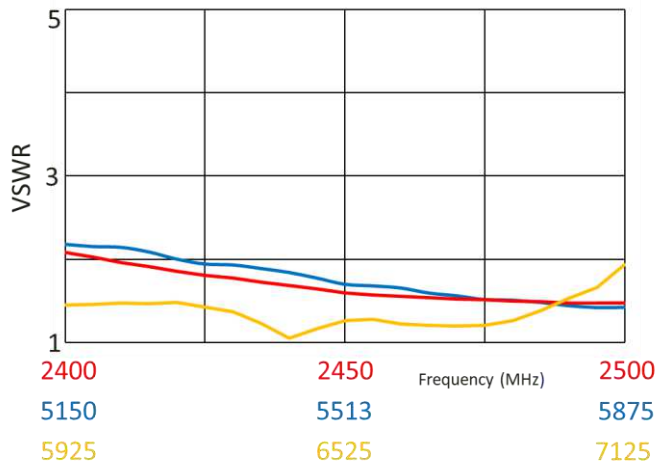
FEATURES & BENEFITS

- WiFi 6, also including WiFi 6E new 6GHz band, Bluetooth, ZigBee
- Adhesive backing on the PCB simplifies mounting within the device
- Global Frequency coverage
- PCB antenna assembly
- Wide selection of micro-coaxial cable lengths

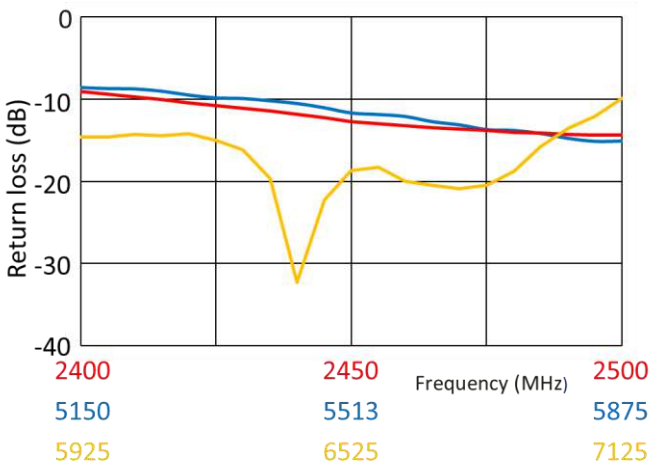## SPECIFICATIONS (Shown as 2108857-1 : Others can vary with different cable lengths.)

Frequency Range (MHz)	2400-2500	5150-5875	5925-7125
VSWR	< 2.0:1	< 2.2:1	< 2.0:1
Average Efficiency	71%	71%	77%
Peak Gain	2.5dBi	4.6dBi	5.0dBi
Average Gain	-1.5dBi	-1.5dBi	-1.2dBi
Power Handling	10 Watt cw		
Feed Point Impedance	50 ohms unbalanced		
Polarization	Linear		
Size	30.0 mm x 7.0 mm x 0.78 mm		
Weight	< 0.8 g		
Mounting	Adhesive Tape		
Mating Connectors	MHF and MHF4-type Refer to page 5		
Cable (Coaxial)	0.81mm and 1.37mm Dia., Refer to page 5		
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.		

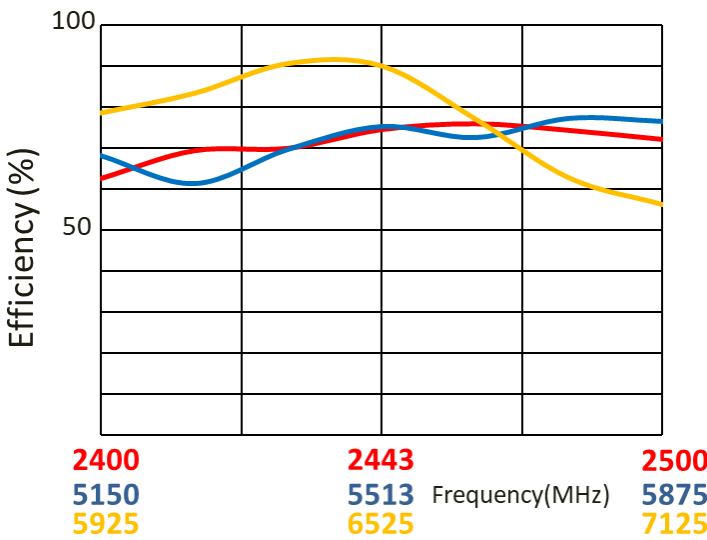## RF DATA (Shown as 2108857-1 : Others can vary with different cable lengths.)

VSWR

2400	2450	2500
5150	5513	5875
5925	6525	7125

Return Loss

2400	2450	2500
5150	5513	5875
5925	6525	7125

Efficiency
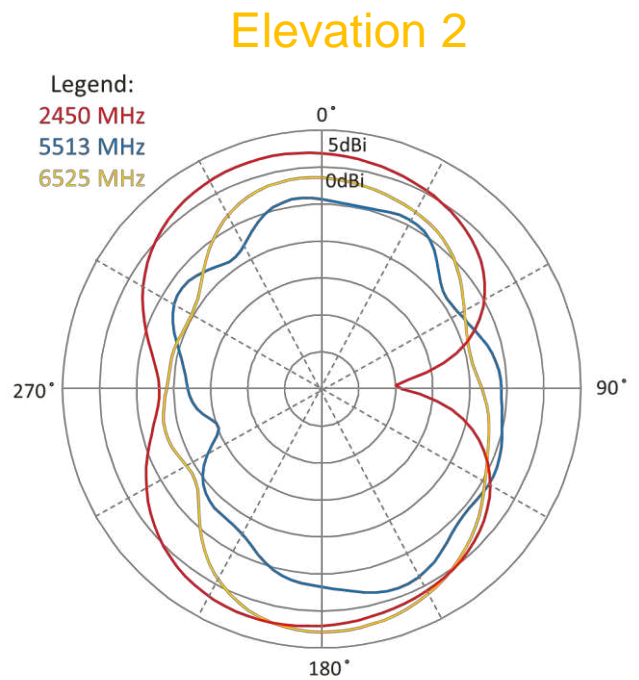

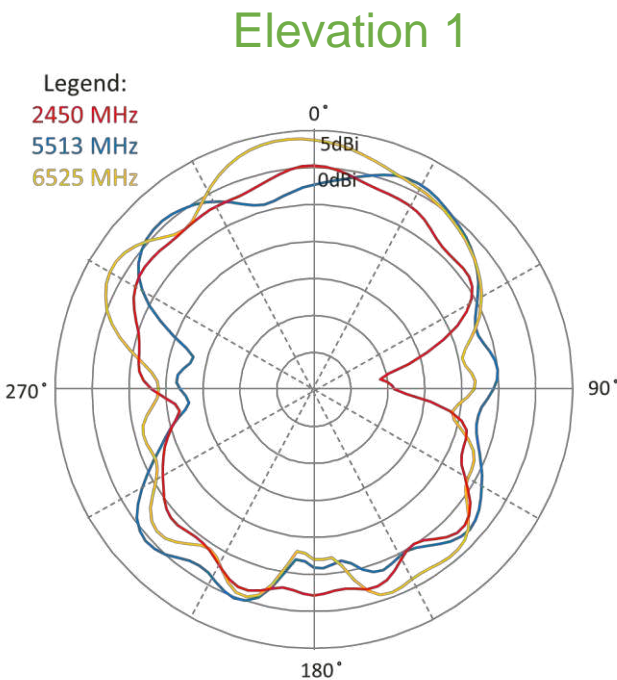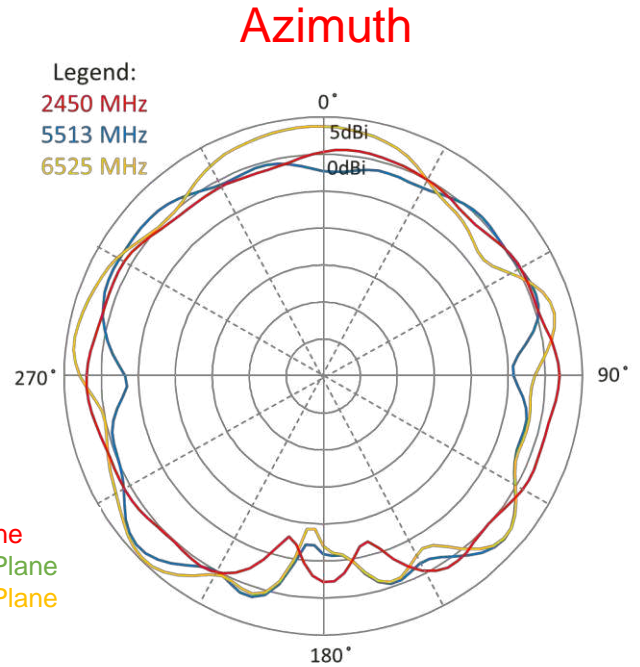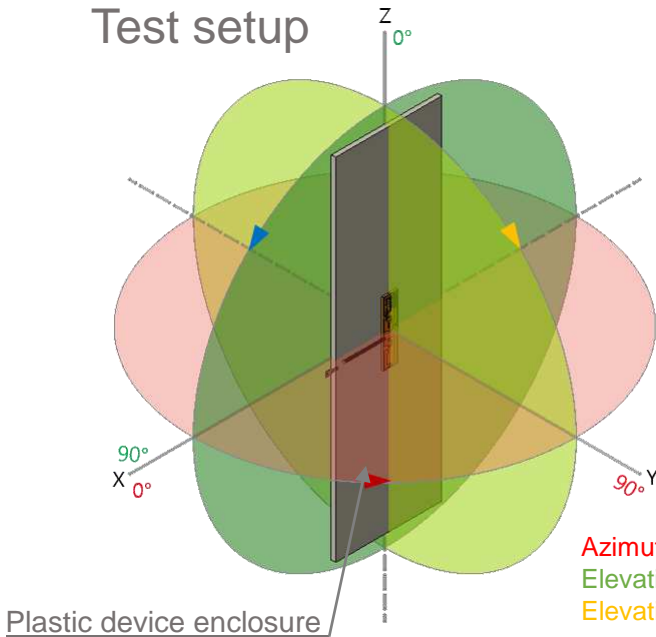| 2400 | 2443 | 2500 |
| 5150 | 5513 | 5875 |
| 5925 | 6525 | 7125 |

Data measured in free space and on plastic device enclosure

RADIATION PATTERN
(Shown as 2108857-1 : Others can vary with different cable lengths.)

Test setup

Plastic device enclosure

Azimuth Plane
Elevation 1 Plane
Elevation 2 Plane

Azimuth

Legend:
2450 MHz
5513 MHz
6525 MHz

Elevation 1

Legend:
2450 MHz
5513 MHz
6525 MHz

Elevation 2

Legend:
2450 MHz
5513 MHz
6525 MHz

Data measured in free space and on plastic device enclosure

KEEP OUT AREA

5.00(2X)   Antenna Outline

5.00(2X)

2108857-1

PLASTIC

Keep Out
Area

5.00(2X)

5.00(2X)
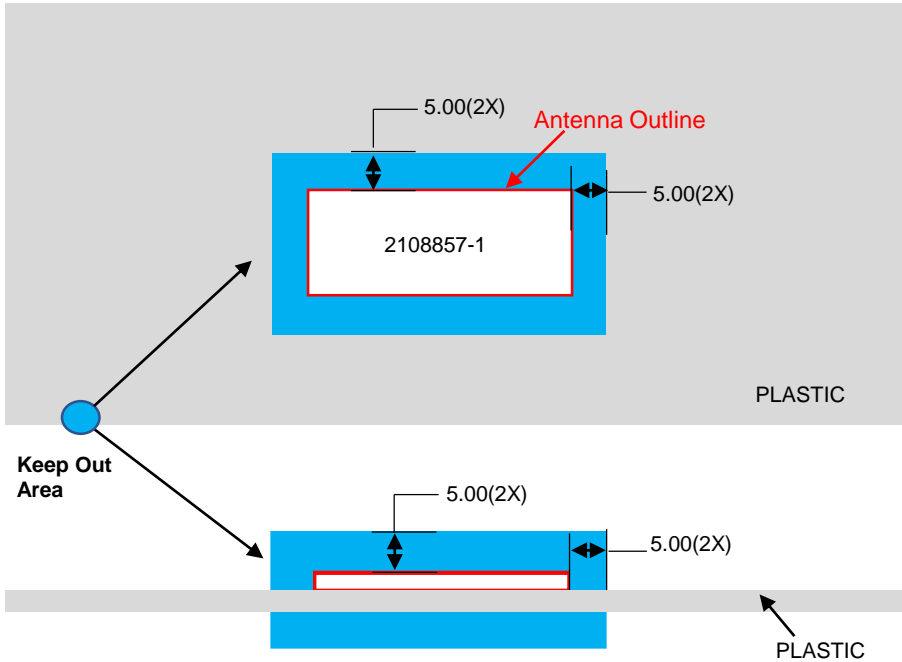
PLASTIC
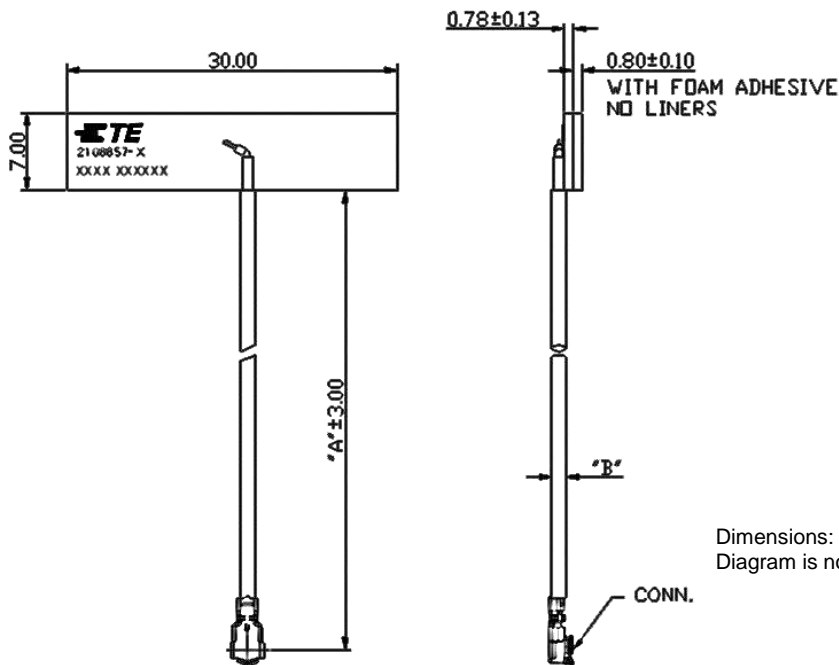
NOTES:1. Antenna designed to be mounted on plastic cover.
       2. Area in blue above indicates Keep Out Area.
       3. For more information please call TE.

Dimensions: mm
Diagram is not to scale

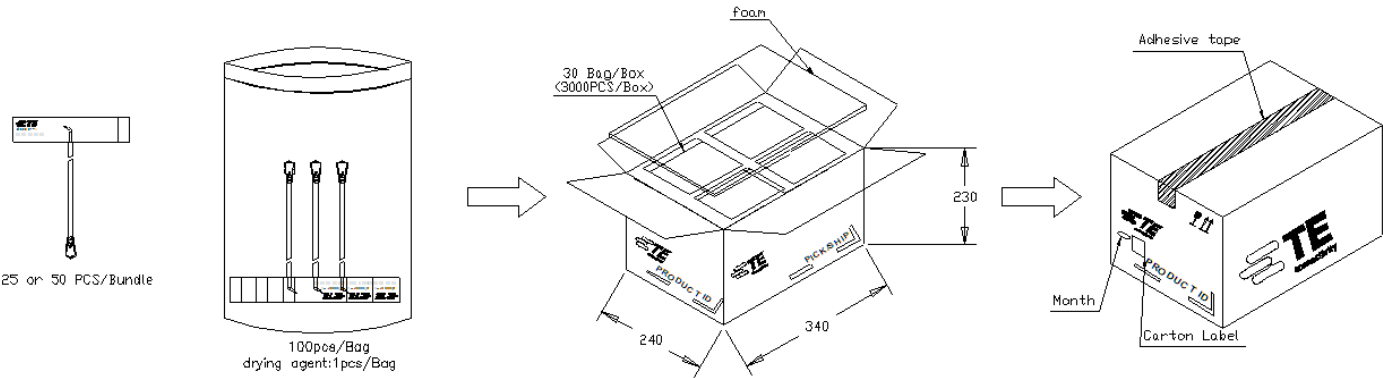## DIMENSIONS
(Refer to Page5 for dimension "A" and "B")

30.00

7.00

TE
2108857-X
XXXX XXXXXX

"A"±3.00

0.78±0.13

0.80±0.10
WITH FOAM ADHESIVE
NO LINERS

"B"

CONN.

Dimensions: mm
Diagram is not to scale

MATING COMPONENTS TO PART NUMBERS AND DIMENSIONS

PART NUMBERS	CABLE LENGTH(A) MM	CABLE LENGTH(A) INCH	CABLE O.D(B), MM	CONNECTOR TYPE (ON CABLE)	PART NUMBER MATING COMPONENTS	IMAGE
2108857-1	50.0	1.968	1.37	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2108857-2	100.0	3.937	1.37	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2108857-3	150.0	5.905	1.37	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2108857-4	200.0	7.784	1.37	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
1-2108857-1	250.0	9.842	1..37	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1	
1-2108857-2	300.0	11.811	1.37	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1	
2108857-5	50.0	1.968	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2108857-6	100.0	3.937	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2108857-7	150.0	5.905	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2108857-8	200.0	7.784	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2108857-9	250.0	9.842	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
1-2108857-3	300.0	11.811	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	

PACKAGING

25 or 50 PCS/Bundle

100pcs/Bag
drying agent:1pcs/Bag

foam
30 Bag/Box
<3000PCS/Box>
230
240
340
PICK SHIP
PRODUCT ID

Adhesive tape
Month
Carton Label
PRODUCT ID

TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

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

te.com

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