



深圳市雅诺讯科技有限公司

产品规格书

PRODUCT SPECIFICATION

Customer:

Customer's part number:

Product description: 2.4G, 5.8G LTE Terminal Antenna

Uni Link's part number: YNX-2.4G-DB-SMA001

Issue Date: 2013-06-14

Note: 2.4G,5.8G SMA, ROHS

客户签名			深圳市雅诺讯科技有限公司		
核准	审核	检查	核准	审核	检查
			黄 杰 武		方 珊 梅



深圳市雅诺讯科技有限公司

Shenzhen Yetnorson Technology Co., Ltd.

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MOBILE: 13825274079

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雅诺讯科技

www.yanuoxun.com

第 1 页



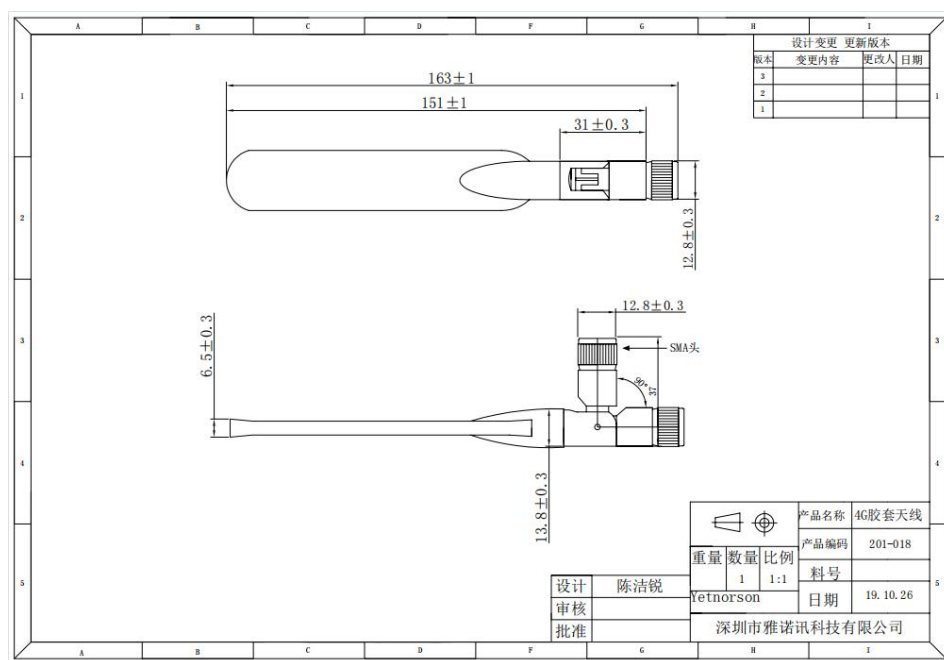
一、目录

1、产品技术指标 (PRODUCT TECHNICAL SPECIFICATION)

电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	2.4G, 5.8G
输入阻抗 Input Impedence (Ω)	50
电压驻波比 V.S.W.R	≤ 1.5
增益 Gain (dBi)	5
极化形式 Polarization Type	垂直 Vertical
功率容量 Power Capacity (w)	50
机械指标 Mechanical Specifications	
天线长度 Antenna Length (mm)	$\varnothing 13.8 \times 163\text{mm}$
辐射体 Radiator	铜 Cuprum
连接器型号 Connect Type	SMA male
工作温度 Working Temp($^{\circ}\text{C}$)	-40~60
外壳颜色 Radome Color	黑色
重量 Weight (g)	27



2、产品图片 (PRODUCT PICTURE)





3.ELECTRIC APPLIANCE CHARACTERISTICS

项目 ITEM		测试环境 TEST CONDITION	规格 SPECIFICATION
1	返回损耗 Return Loss	使用 Agilent 网络分析仪 8753ET 测量天线 S11 之返回损耗参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S11 Return Loss Characteristics.	
2	电压驻波比 VSWR	使用 Agilent 网络分析仪 8753ET 测量天线 S11 之电压驻波比参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S11 VSWR Characteristics.	
3	阻抗 Smith chart	使用 Agilent 网络分析仪 8753ET 测量天线 S11 之史密斯阻抗参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S11 Gain Response Characteristics.	
4	增益效应 Gain response	使用 Agilent 网络分析仪 8753ET 测量天线 S21 之史密斯阻抗参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S21 Gain Response Characteristics.	



4、MECHANICAL CHARACTERISTICS

1	摇摆测试 BENDING TEST	放离接头 30CM 的线端上荷重 120g，固定接头后进行摇摆测试，摇摆角度左右各 60 度，摇摆 1000 次后测试特性。	摇摆 1000 次后测试特性无任何现象显示电器性能之损坏。
2	强度测试 STRENG TEST	一个 15 磅之静负荷施加放线端底部持续一分钟。	无任何现象显示机械及电器性能之损坏。
3	拉力测试 PULLING FORCE	用拉力计接头及线财间进行拉力测试。	可承受拉力为 7Kg 无任何现象显示电器性能之损坏。
4	振动测试 VIBRATION TEST	以 1.10mm 和振幅和 33.30Hz/sec 振动频率以 X 轴方向振动 120 分钟，Y 轴方向振动 120 分钟，Z 轴方向振动 240 分钟。	无任何现象显示电器性能之损坏。

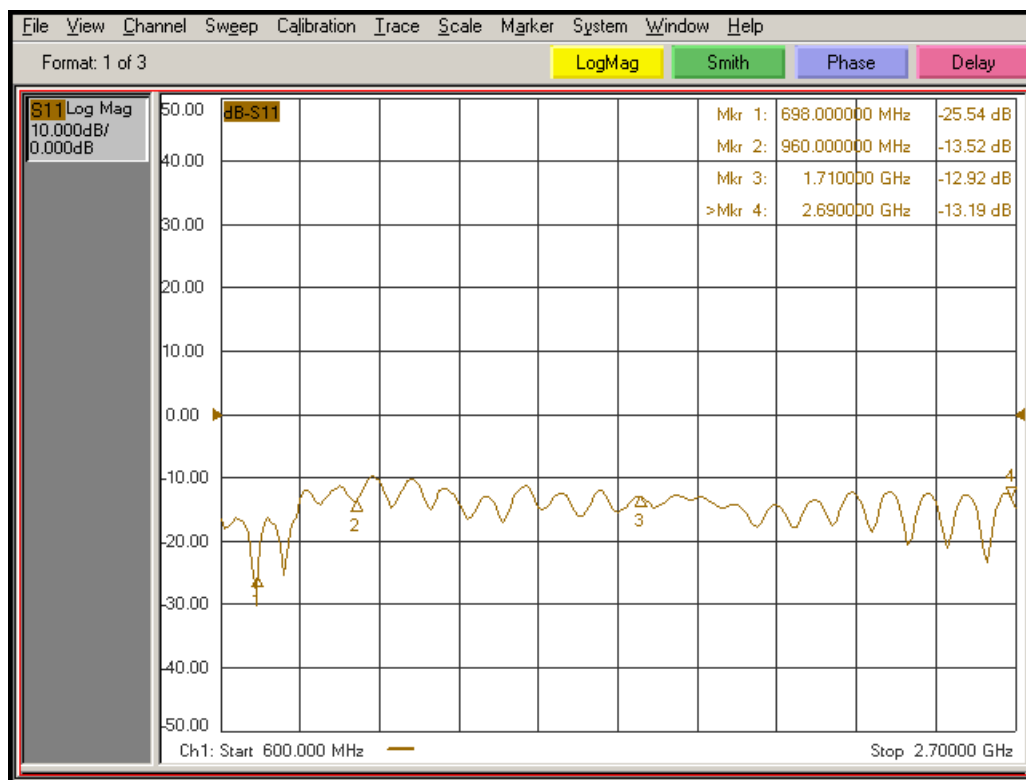


5、DURABILITY

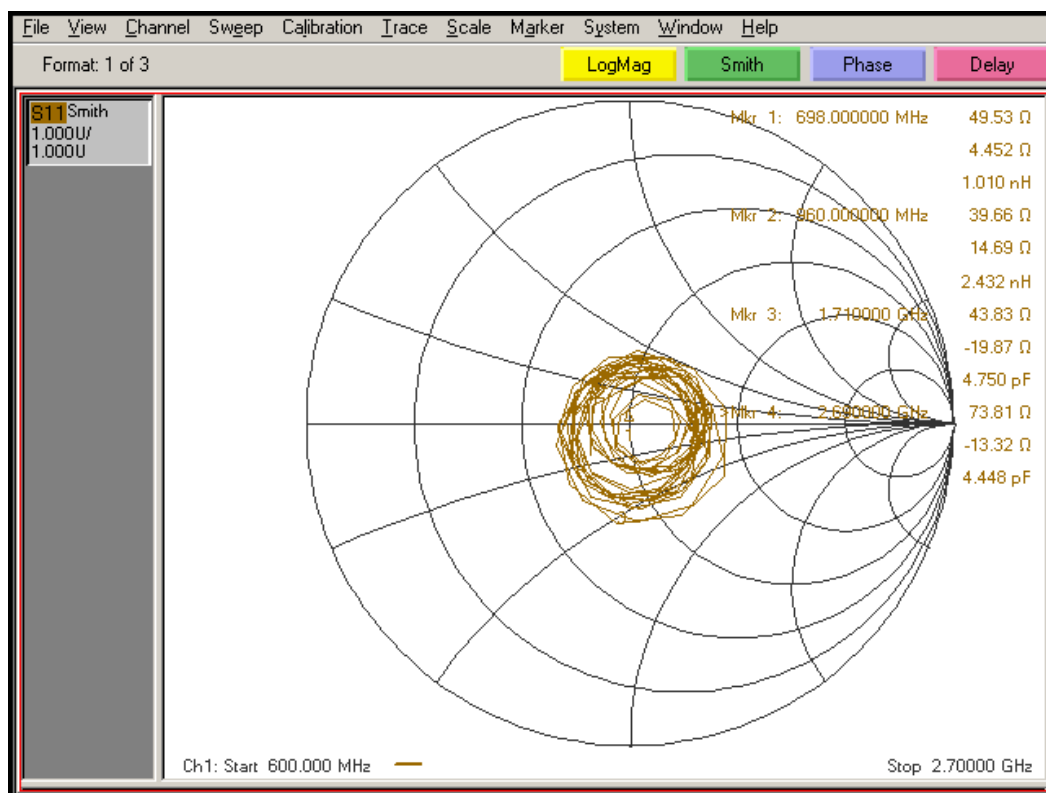
1	盐雾试验 SAIT SPRAY TEST	盐水喷雾试验：依 GB1266-86 标准 蒸馏水：一次蒸馏 PH6.5~7 喷雾量：1.4me80cm ² /h 压缩空气压力：1Kgf/ cm ² 试验相对度：98° 温度：45° ~47° 压力温度：35° 测试时间：96hr	所有规格变华 范围初始值 30% All characteristic range is 30% of the initial value
2	高温试验 HEAT TEST	在 85+2℃环境中放 96 小时，再放在正常环境中 30 分钟后进行测试 85+2℃ for 96 hours, after keep in normal condition for 30min the to test.	
3	温试验 HUMIDITY TEST	在 40+2℃ 90-95%RH 环境中放 96 小时，再放在正常环境中 30 分钟后进行测试 40+2℃ 90-95%RH for 96hours, after keep in normal condition for 30min the to test.	
4	底温试验 COLD TEST	在-40+2℃ 环境中放 96 小时,再置放正常环境中 30 分钟后进行测试 -40+2℃ for 96hours, after keep in normal condition for 30min the to test.	



6、返回损耗（Return Loss）

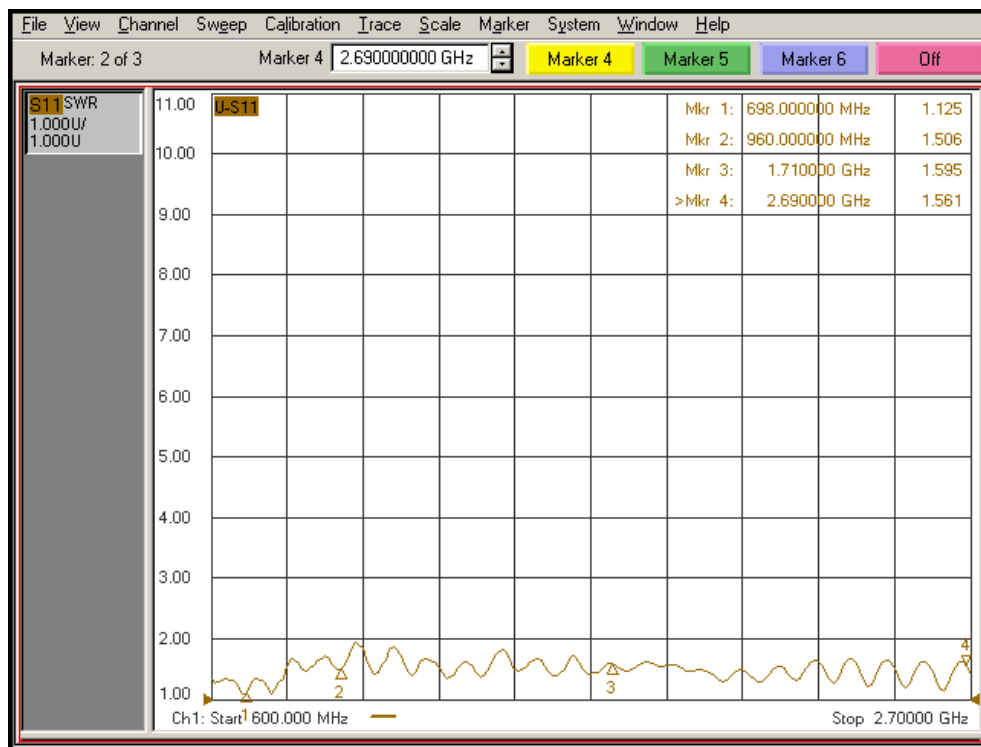


7、史密斯阻抗（Smith chart）





8、电压驻波比（VSWR）





CERTIFICATE OF REGISTRATION

The Environmental Management Systems of

Shenzhen Yetnorson Technology Co.,Ltd.

Unified Social Credit Code:91440300558657378W

3/F Central Block of A & B, 1-3/F of Block B, 3/F of Block A, No. 8 Changsheng Road,
Biling Community, Pingshan District, Shenzhen

has been assessed by GIC and complying with

GB/T24001-2016/ISO14001:2015

For the following activities

**Environmental management activities of places relating to
research and development, production and sales of
communication module antenna**

Date of Issue: 11 September 2019

Date of Expiry: 10 September 2022

Date of Initial Certification: 11 September 2019

Certificate No.: U19E2GZ8014992R0S



Scan for certificate status

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GIC WeChat public number

Signature: 

Guardian Independent Certification Ltd

Registered in England

Sovereign House 212-224 Shaftesbury Avenue London England WC2H 8HQ
Accredited by Member of IAF MLA



0045

雅诺讯科技

www.yanuoxxun.com



Certificate of Registration

This certificate has been awarded to

Shenzhen Yetnorson Technology Co., Ltd.

The Third Floor in The Middle of Building A and Building B, Floor 1-3 of Building B, Floor 3 of Building A, No.8, Changsheng Road, Biling Community, Biling Street, Pingshan District, Shenzhen City, Guangdong Province, China

in recognition of the organization's Quality Management System which complies with

IATF 16949:2016

The scope of activities covered by this certificate is defined below

Design and Manufacture of Communication Module Antenna

Certificate Number:	Date of Issue of Certification Cycle:	Date of Issue:
106789/A/0001/SM/En	27 August 2019	26 August 2019
Issue No:	Expiry Date:	IATF No:
1	25 August 2022	0358550

Issued by:

On behalf of the Schemes Manager



If there is any doubt as to the authenticity of this certificate, please do not hesitate to contact the Head Office of the Group on info@urs-certification.com.
URS is a member of United Register of Systems (Holdings) Ltd, United House, 4 Histon Road, Bournemouth, BH1 2SE, UK. Company Registration no. 5305406

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Wi-Fi 6/ 6E TRIPLE BAND EMBEDDED ANTENNA

Part Number: X-2108792-X

(see page 5 for details)

FEATURES & BENEFITS

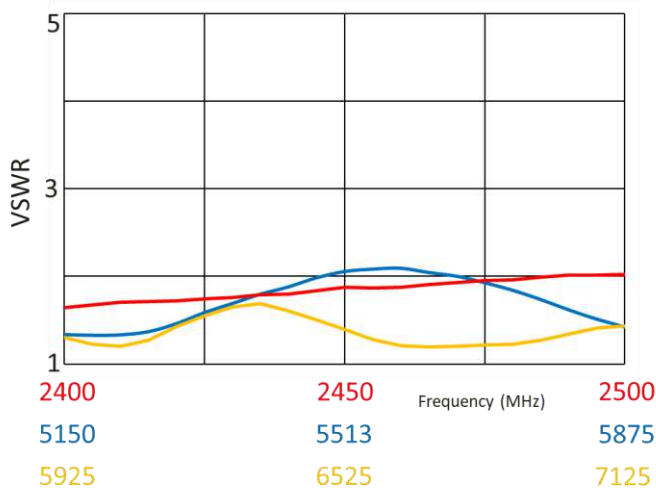
- WiFi 6, also including WiFi 6E **new 6GHz** band, Bluetooth, ZigBee
- Adhesive backing on the FPC simplifies mounting within the device
- Global Frequency coverage
- FPC antenna assembly
- Different cable length and connector options available

SPECIFICATIONS (Shown as 2108792-1 : Others can vary with different cable lengths.)

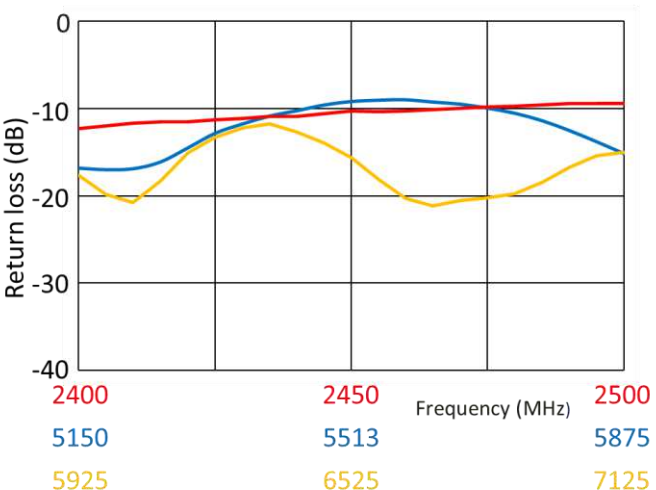
Frequency Range (MHz)	2400-2500	5150-5875	5925-7125
VSWR	< 2.1:1	< 2.1:1	< 1.7:1
Average Efficiency	73%	62%	69%
Peak Gain	4.9dBi	3.5dBi	4.5dBi
Average Gain	-1.4dBi	-2.1dBi	-1.7dBi
Power Handling	10 Watt cw		
Feed Point Impedance	50 ohms unbalanced		
Polarization	Linear		
Size	40.0 mm x 10.0 mm x 0.12 mm		
Weight	< 0.9 g		
Mounting	Adhesive Tape		
Mating Connector	MHF and MHF 4L-type Refer to page 5		
Cable(Coaxial)	1.13mm 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 2108792-1 : Others can vary with different cable lengths.)

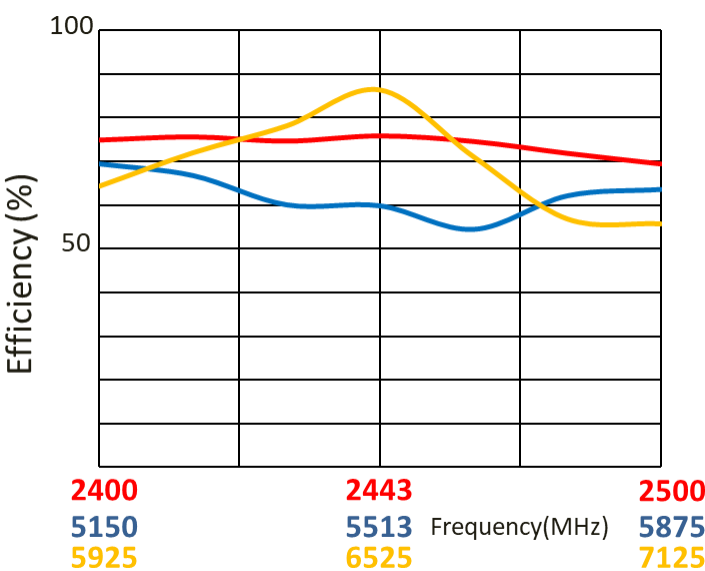
VSWR



Return Loss



Efficiency

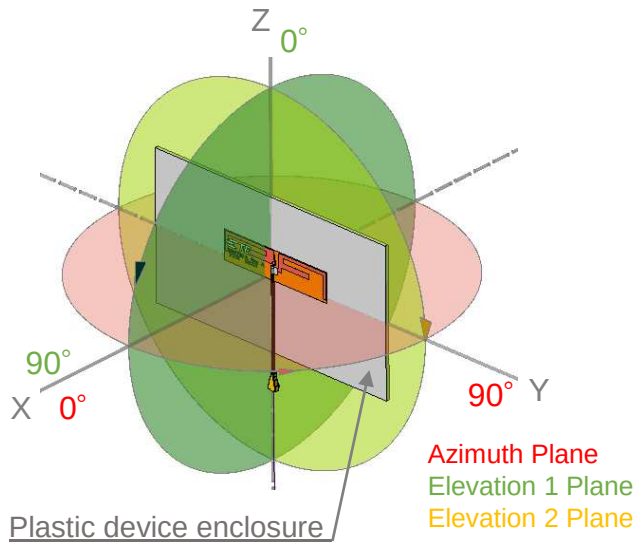


Data measured in free space and on plastic device enclosure

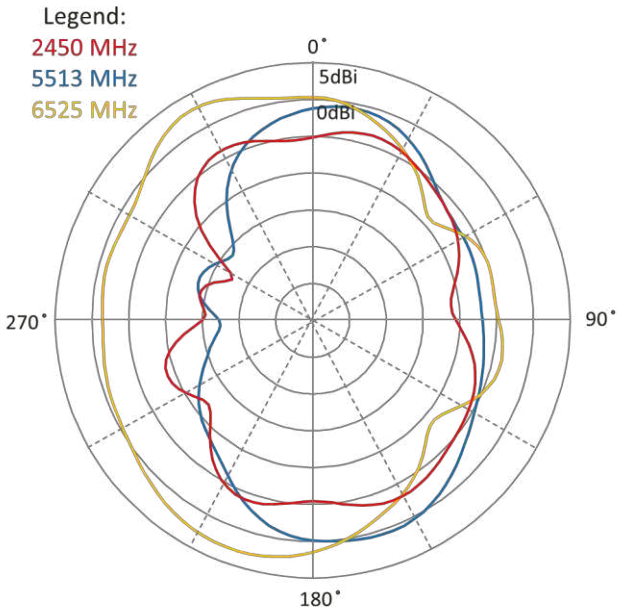
RADIATION PATTERN

(Shown as 2108792-1 : Others can vary with different cable lengths.)

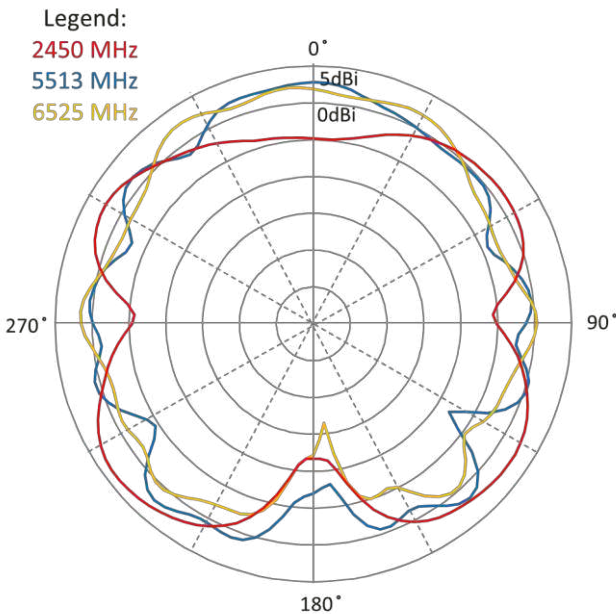
Test setup



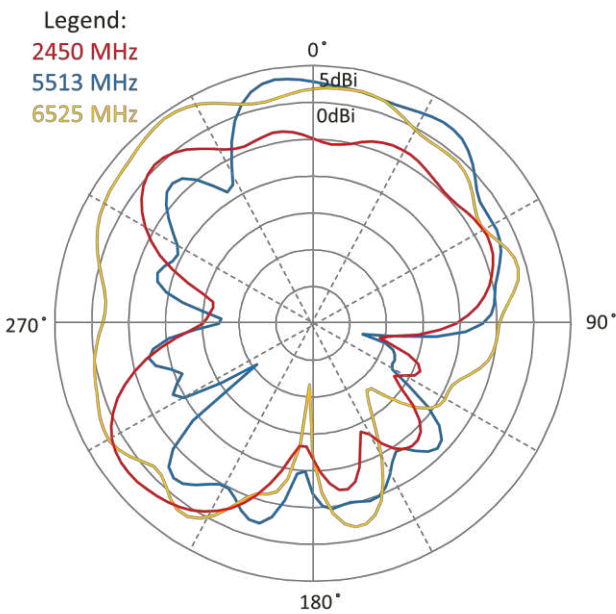
Azimuth



Elevation 1

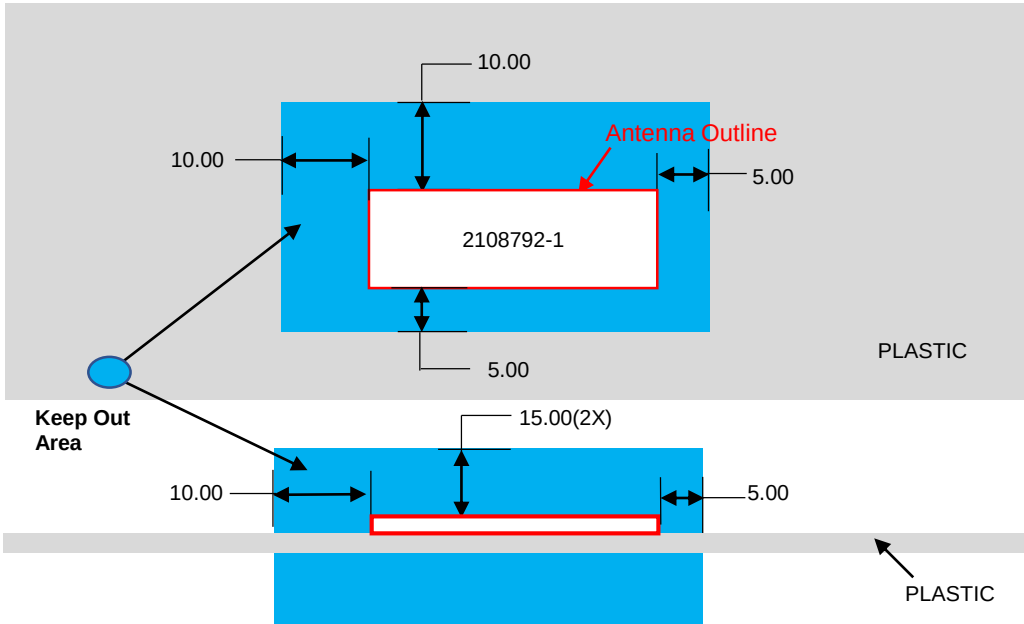


Elevation 2



Data measured in free space and on plastic device enclosure

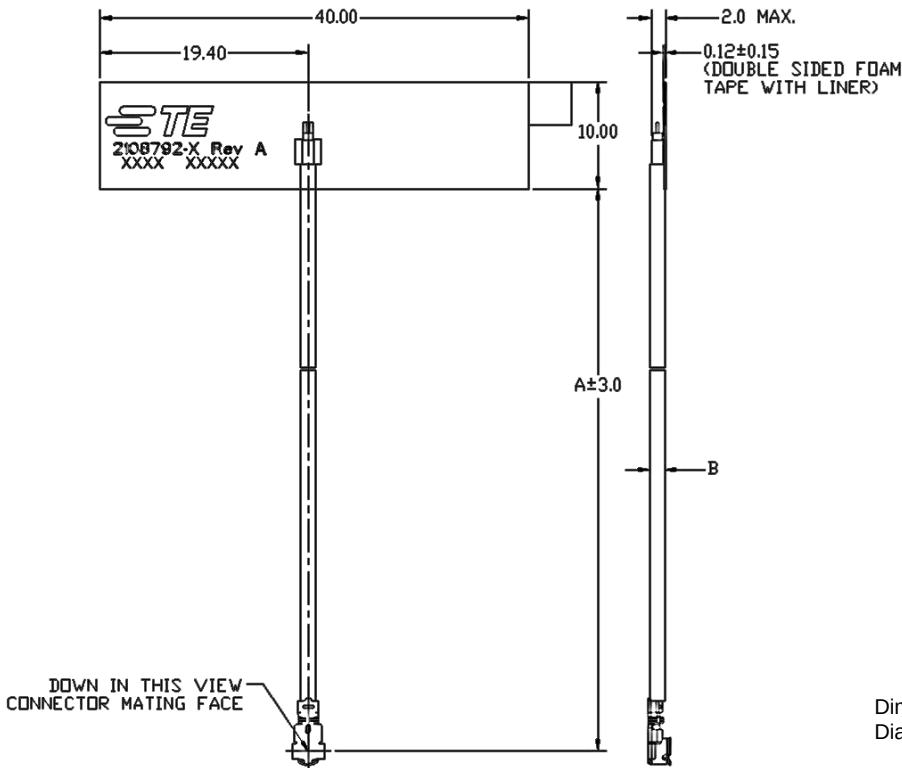
KEEP OUT AREA



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.

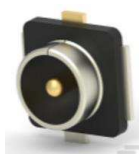
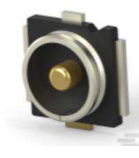
Dimensions: mm
Diagram is not to scale

DIMENSIONS

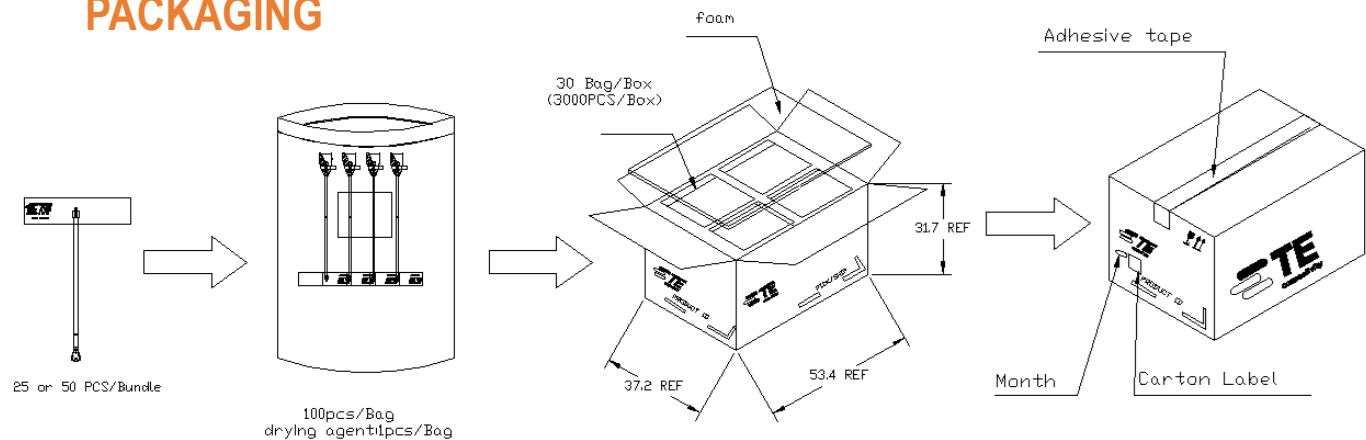


Dimensions: mm
Diagram is not to scale

MATING COMPONENTS TO PART NUMBERS AND DIMENSIONS

2108792-1	112.0	4.409	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2108792-2	50.0	1.968	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2108792-3	100.0	3.937	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2108792-4	150.0	5.905	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2108792-5	200.0	7.784	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
1-2108792-3	250.0	9.843	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
1-2108792-4	300.0	11.811	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2108792-6	50.0	1.968	1.13	MHF4L-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2108792-7	100.0	3.937	1.13	MHF4L-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2108792-8	150.0	5.905	1.13	MHF4L-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2108792-9	200.0	7.784	1.13	MHF4L-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
1-2108792-5	250.0	9.843	1.13	MHF4L-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
1-2108792-6	300.0	11.811	1.13	MHF4L-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	N/A
3-2108792-1	100.0	3.937	0.81	MHF3-TYPE PLUG	N/A	
PART NUMBER	MM	INCH	CABLE O.D(B) MM	CONNECTOR TYPE (ON CABLE)	PART NUMBER	IMAGE
	CABLE LENGTH(A)				MATING COMPONENTS	

PACKAGING



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Canada:	+1 (905) 475-6222
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12/2020



BT/Wi-Fi 2.4 GHz EMBEDDED CHIP ANTENNA

Part Numbers: 2108832-1

FEATURES & BENEFITS

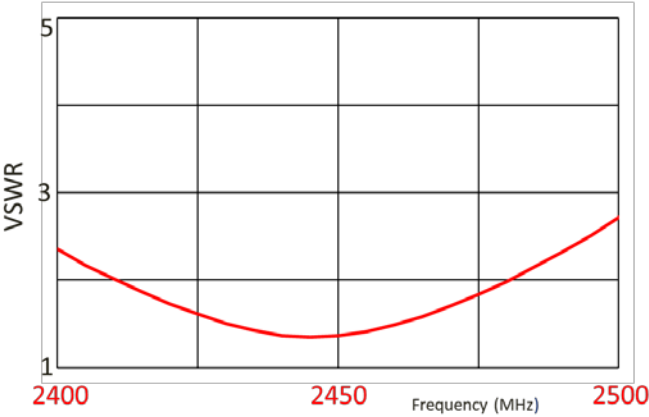
- Wi-Fi 2.4 GHz, Bluetooth, ZigBee
- Embedded Ceramic Chip Antenna
- On Board SMD Antenna
- Available in tape & reel
- The following data is based on 50 x 50 mm ground size

SPECIFICATIONS

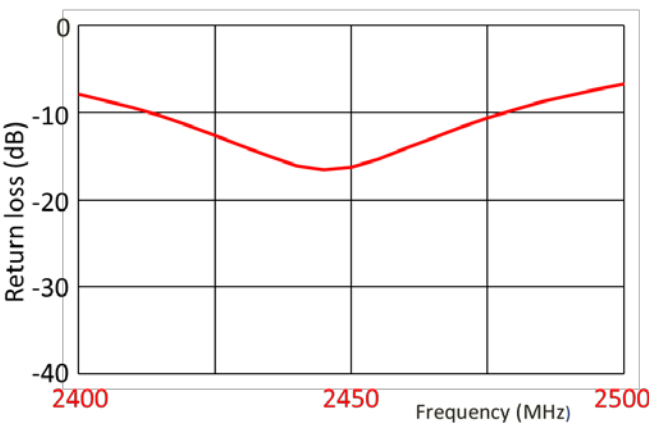
Frequency Range (MHz)	2400 - 2500
VSWR	< 2.8:1
Average Efficiency	82 %
Peak Gain	1.8 dBi
Average Gain	-1.9 dBi
Feed Point Impedance	50 ohms
Polarization	Linear
Size	3.0 mm x 1.5 mm x 1.2 mm
Weight	< 0.02 g
Mounting	Surface mount
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

RF DATA

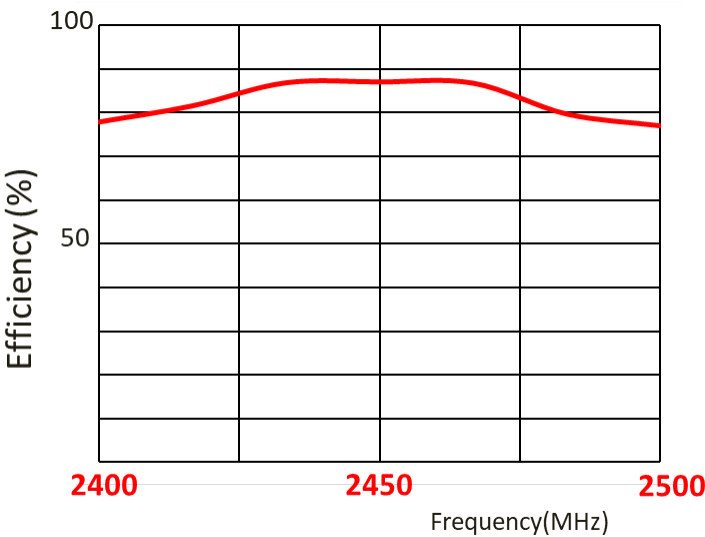
VSWR



Return Loss

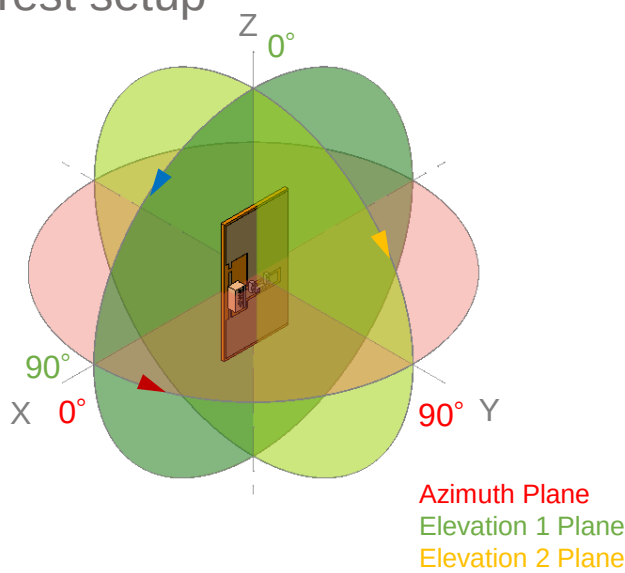


Efficiency

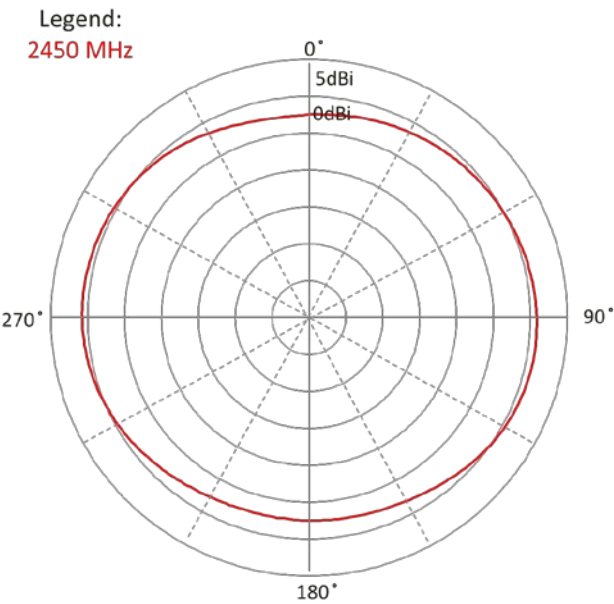


RADIATION PATTERN

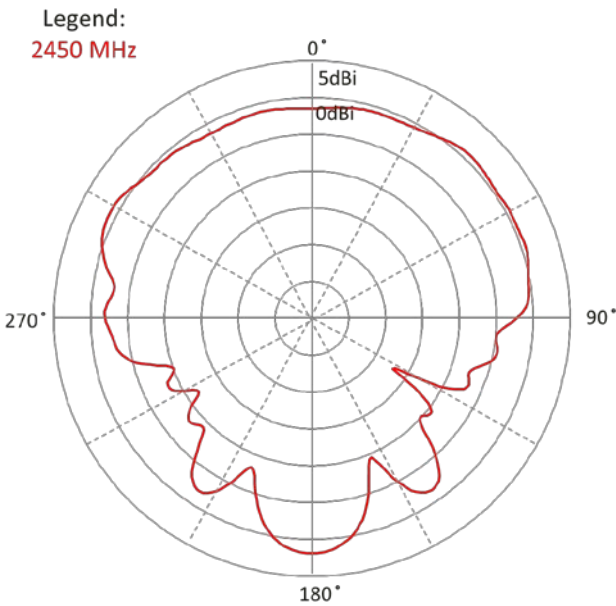
Test setup



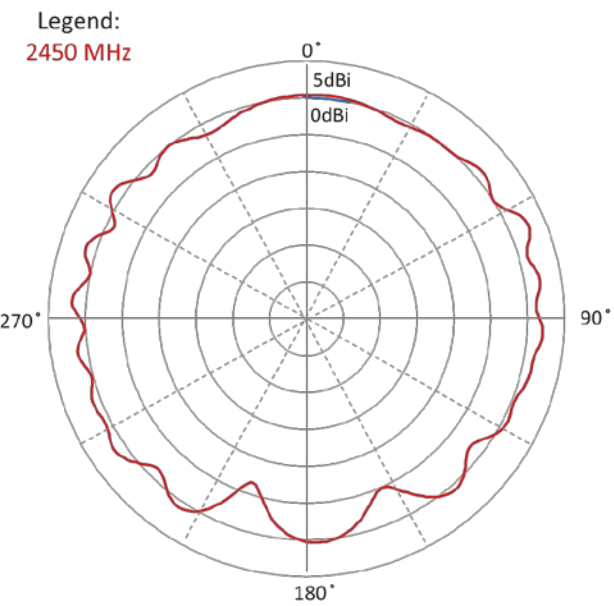
Azimuth



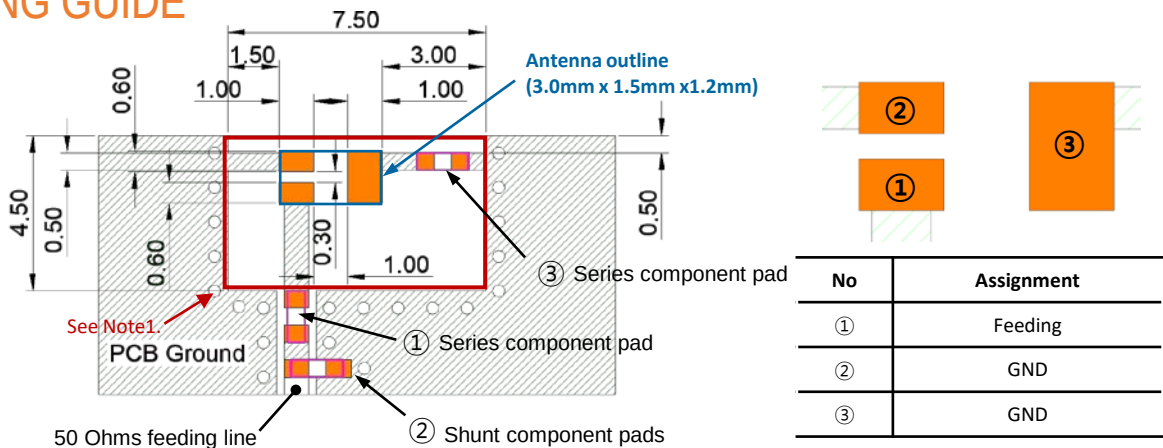
Elevation 1



Elevation 2

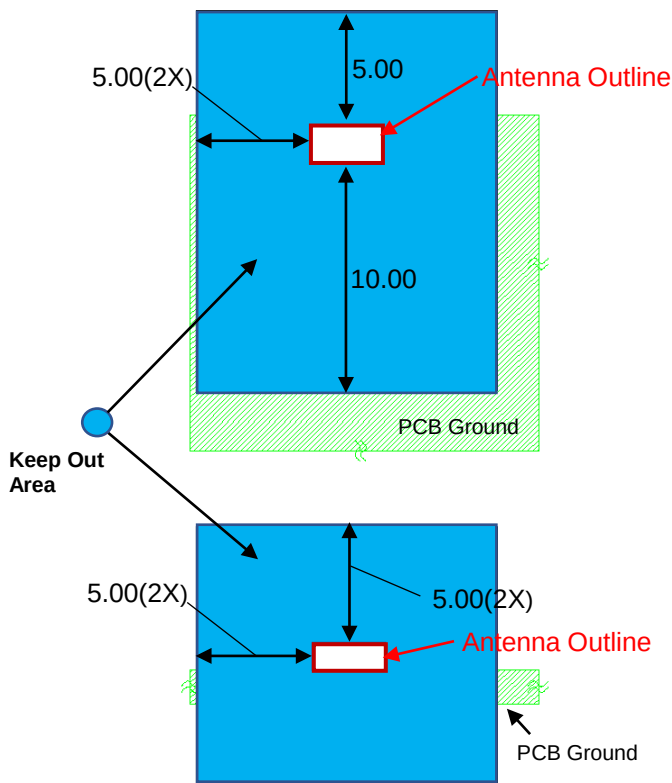


MOUNTING GUIDE

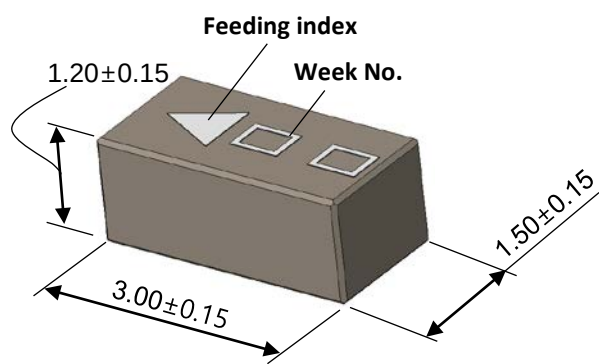


- NOTES: 1. No copper allowed in designated area on all PCB layers – Dimension: mm
2. Measured with above matching circuit condition. Diagrams is not to scale
3. For more information please call TE.
4. Measured with below matching circuit condition.
① 4.7pF ② 2.7nH ③ 100pF

KEEP OUT AREA

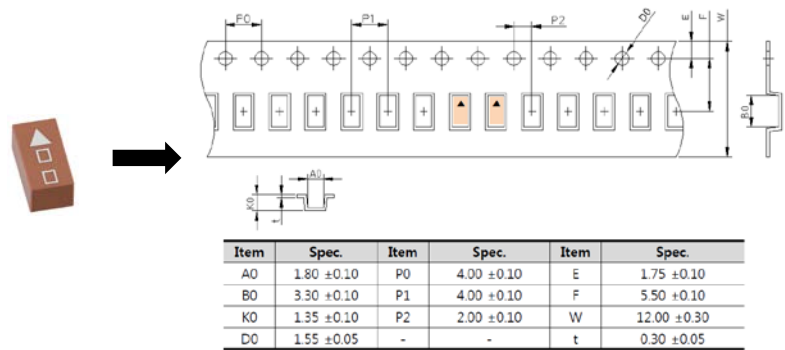


DIMENSIONS

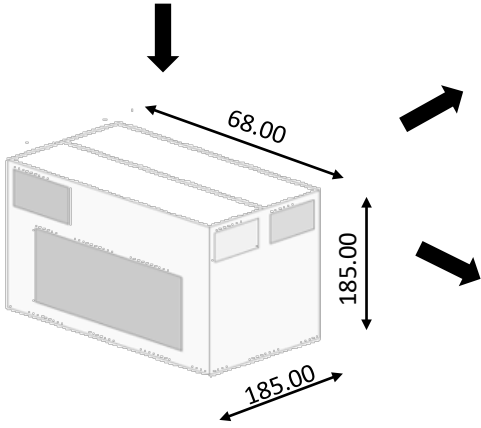


Dimension: mm
Diagrams is not to scale

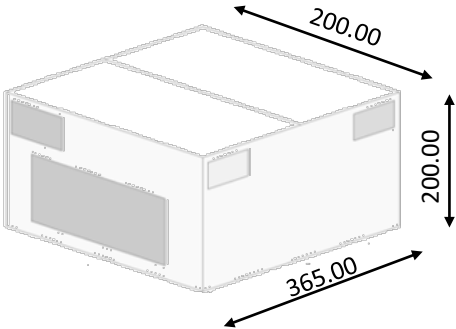
PACKAGING



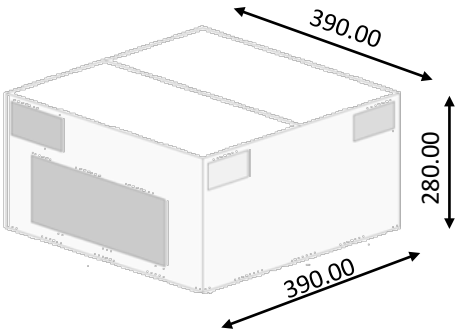
2,500pcs/1Reel
Ø7" x 12 mm



7,500pcs/3 Reel
3 Reel/1 Inner box



37,500pcs/5 Inner box
5 Inner box/1 Outer box #1



105,000pcs/14 Inner box
14 Inner box/1 Outer box #2

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- UK: +44 (0) 800-267666
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03/2023





Wi-Fi 6/ 6E TRIPLE BAND EXTERNAL ANTENNA

**Part Numbers: 2108923-1, 2108923-2
2108923-3, 2108923-4**

FEATURES & BENEFITS

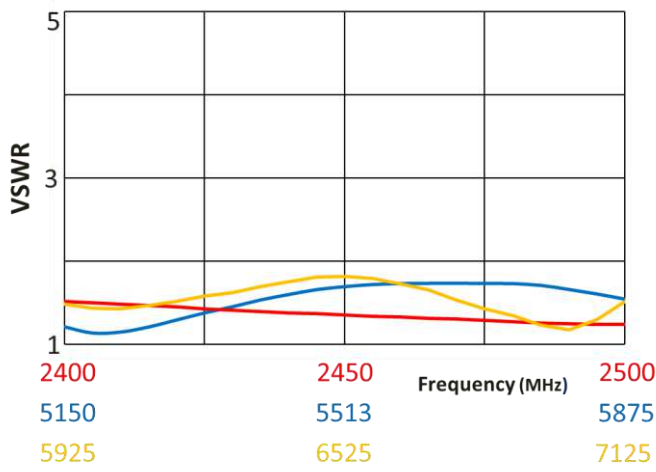
- Wi-Fi 6, also including Wi-Fi 6E new 6GHz band, Bluetooth and ZigBee
- 90 degree hinge type SMA / RP-SMA connector terminal mount
- No matching circuits required

SPECIFICATIONS

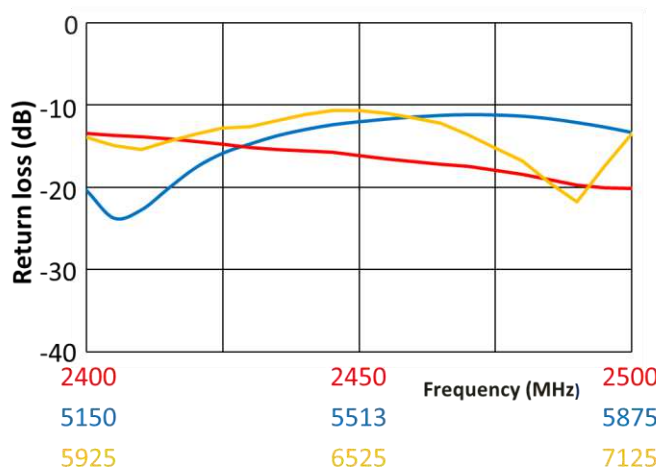
Frequency Range (MHz)	2400 - 2500	5150 - 5875	5925 – 7125
VSWR	< 1.6:1	< 1.8:1	< 1.9:1
Average Efficiency	85 %	85 %	74 %
Peak Gain	2.5 dBi	3.2 dBi	3.5 dBi
Average Gain	-0.7 dBi	-0.7 dBi	-1.4 dBi
Power Handling	10 Watt cw		
Feed Point Impedance	50 ohms		
Polarization	Linear		
Size	19.91mm x 135.80 mm (Unfolded) 19.91mm x 115.00 mm (Folded)		
Weight	< 12.6 g		
Mounting	SMA Male / RP-SMA Male Terminal mount		
Mating Connectors	SMA Female / RP-SMA Female		
Operating Temperature	-40 to +85°C		
Storage Temperature	-40 to +85°C		
Packaging Specification	Bag & Box		
Hazardous Materials	A certificate of conformance is available from the product page on TE website		
Data measured in free space with hinge at 90 degree bend			

RF DATA

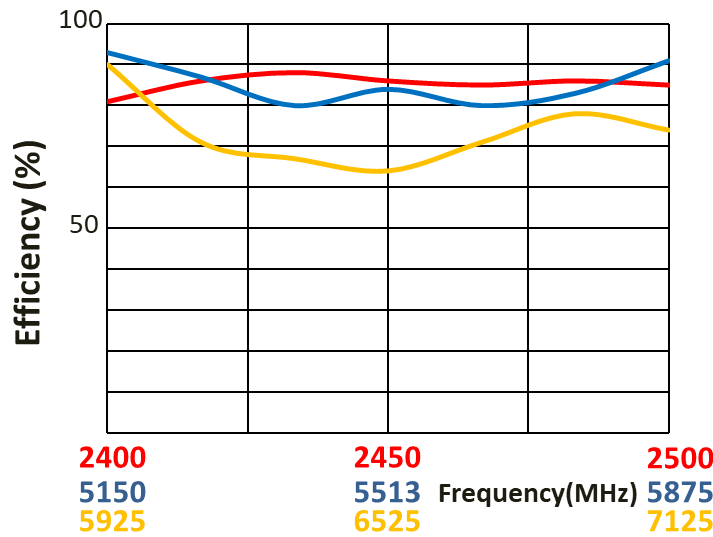
VSWR



Return Loss

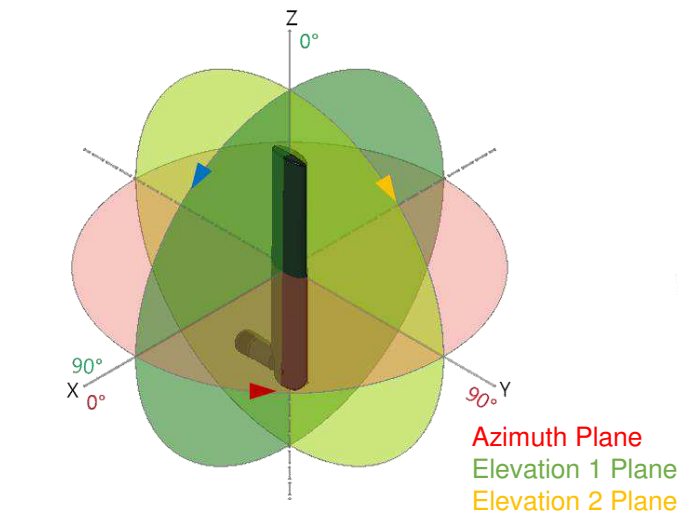


Efficiency

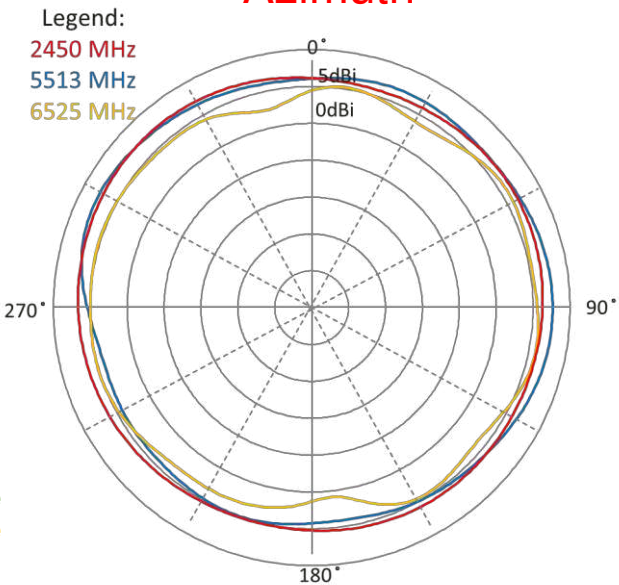


RADIATION PATTERN

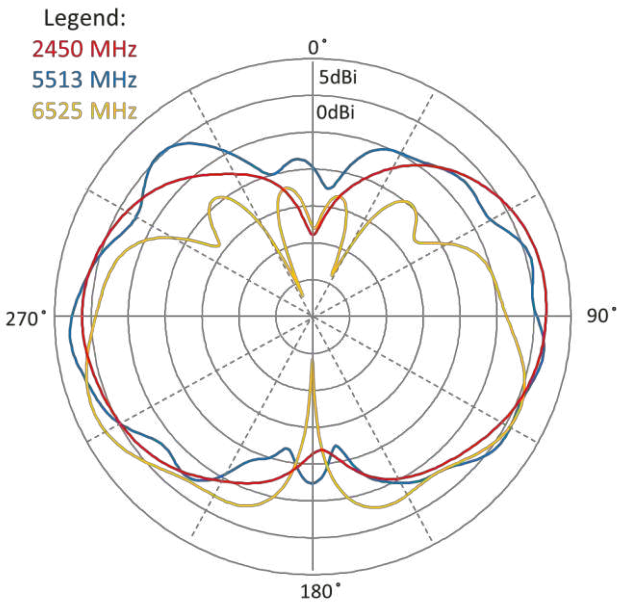
Test setup



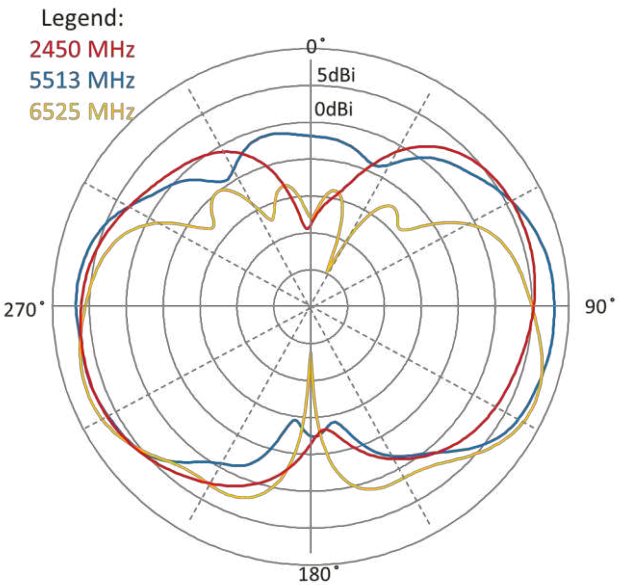
Azimuth



Elevation 1



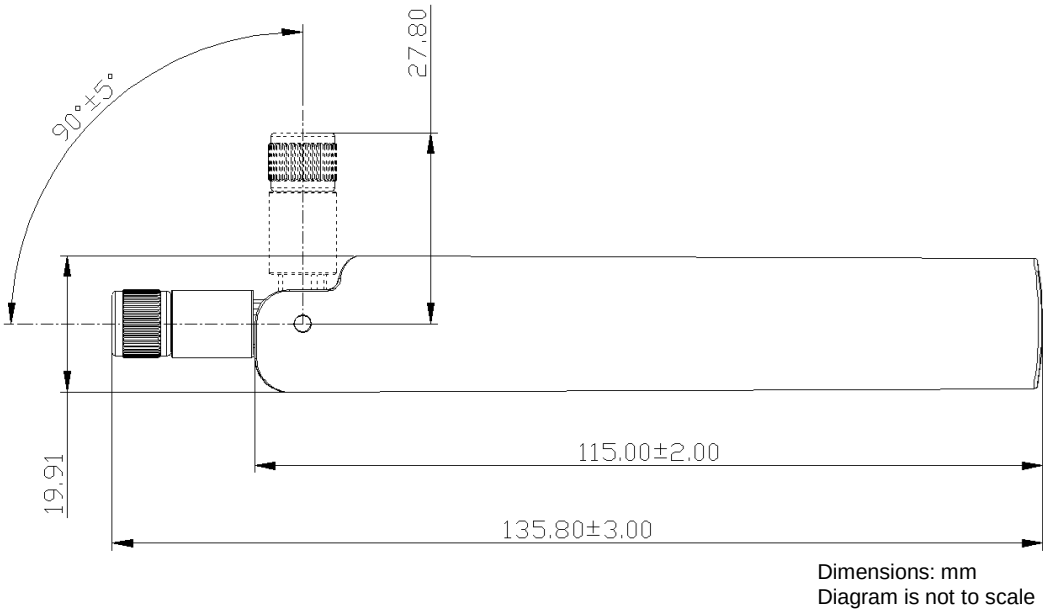
Elevation 2



Wi-Fi 6/ 6E TRIPLE BAND EXTERNAL ANTENNA

Standard Antenna Solutions

DIMENSIONS



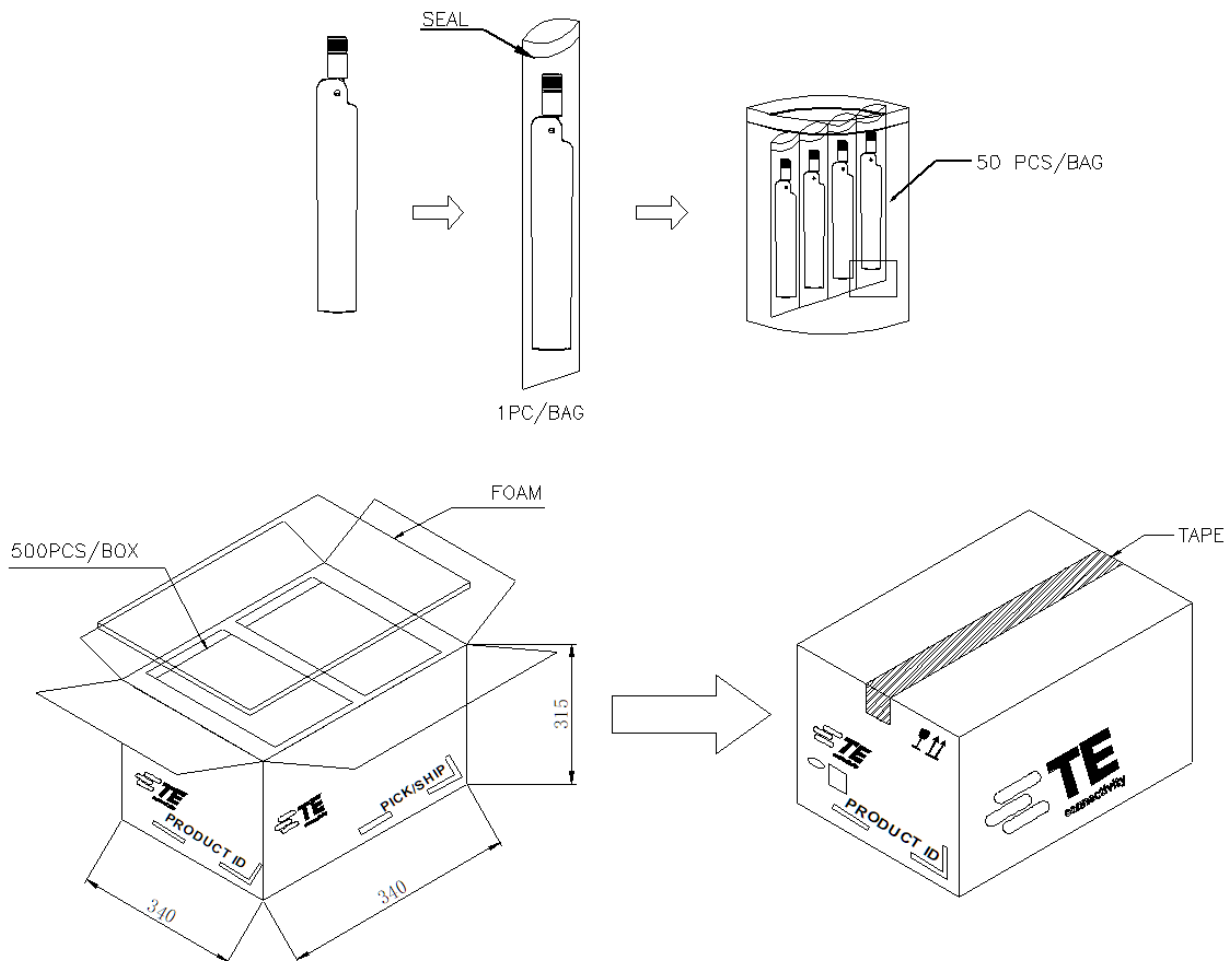
MATING COMPONENTS

2108923-4	WHITE	RP-SMA (Male)	2016504-1: RP-SMA jack, right-angle, PCB-mount	2016693-2: RF CA, RP-SMA bulkhead to UMCC 2016693-4: RF CA, RP-SMA bulkhead to UMCC I
2108923-3	BLACK	RP-SMA (Male)		2016695-2: RF CA, RP-SMA bulkhead to UMCC IV 2016695-4: RF CA, RP-SMA bulkhead to UMCC IV
2108923-2	WHITE	SMA (Male)	5-1814400-2: SMA JACK, RIGHT ANGLE	2016682-2: SMA GEN1 (MHF type),1.13 cable, Length=100mm 2016682-4: SMA GEN1 (MHF type),1.13 cable, Length=200mm
2108923-1	BLACK	SMA (Male)	5-1814832-2: SMA JACK, VERTICAL	2016694-2: SMA GEN4 (MHF4 type),1.13 cable, Length=100mm 2016694-4: SMA GEN4 (MHF4 type),1.13 cable, Length=200mm
PART NUMBER	COLOR	CONNECT OR TYPE	RF CONNECTOR	SMA JACK TO MICRO COAX CABLE ASSEMBLIES
MATING COMPONENTS				

Wi-Fi 6/ 6E TRIPLE BAND EXTERNAL ANTENNA

Standard Antenna Solutions

PACKAGING



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12/2022



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

Part Numbers: 2195889-1, 2195889-2

FEATURES & BENEFITS

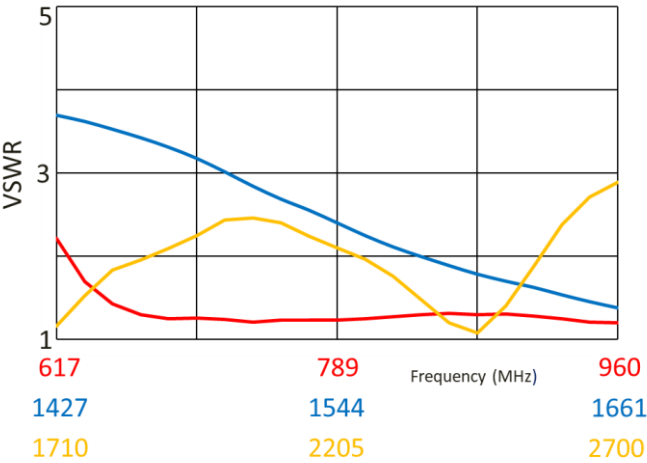
- Wide Band coverage: LTE, 5G, NB-IoT, Cat-M, GNSS and Wi-Fi 6 Dual Band
- 90 degree hinge type SMA terminal mount
- No matching circuits required
- Similar performance for connection via coax cable and coax connector on PCB

SPECIFICATIONS

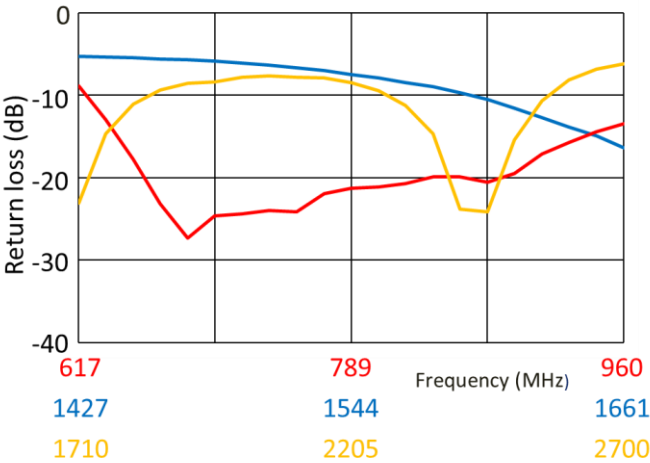
Frequency Range (MHz)	617 - 960	1427-1661	1710-2700	3300-4200	4400-5000	5150-5925
VSWR	< 2.3:1	< 3.7:1	< 2.9:1	< 2.4:1	< 2.1:1	< 2.0:1
Average Efficiency	47 %	63 %	76 %	74 %	64 %	65 %
Peak Gain	1.6 dBi	2.5 dBi	3.7 dBi	1.9 dBi	2.1 dBi	4.5 dBi
Average Gain	-3.3 dBi	-2.3 dBi	-1.3 dBi	-1.3 dBi	-2.0 dBi	-1.9 dBi
Power Handling	10 Watt cw					
Feed Point Impedance	50 ohms unbalanced					
Polarization	Linear					
Size	19.91mm x 135.80 mm (Unfolded) 19.91mm x 115.00 mm (Folded)					
Weight	< 16 g					
Mounting	SMA Male Terminal mount					
Mating Connectors	SMA Female					
Operating Temperature	-20 to +65°C					
Storage Temperature	-20 to +65°C					
Packaging Specification	Bag & Box					
Hazardous Materials	A certificate of conformance is available from the product page on TE website.					
Data measured in free space with hinge at 90 degree bend						

RF DATA

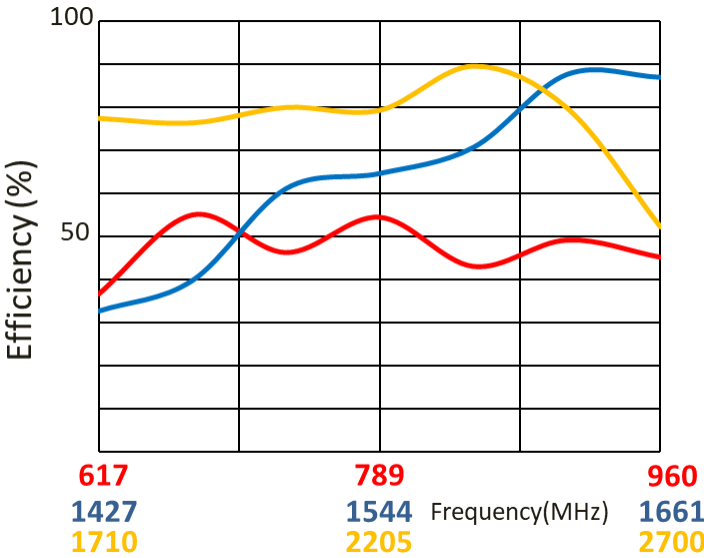
VSWR



Return Loss



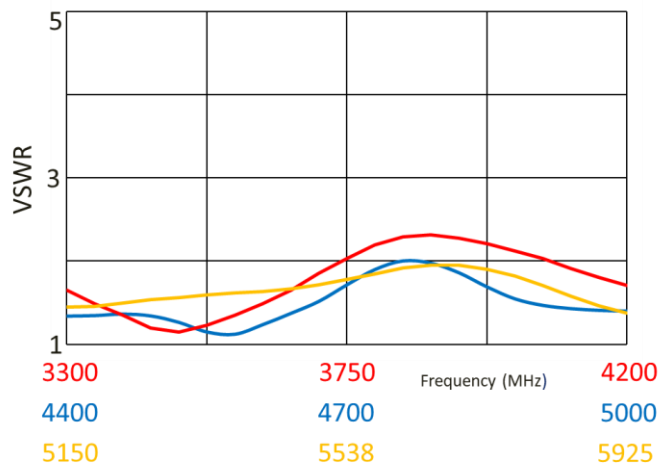
Efficiency



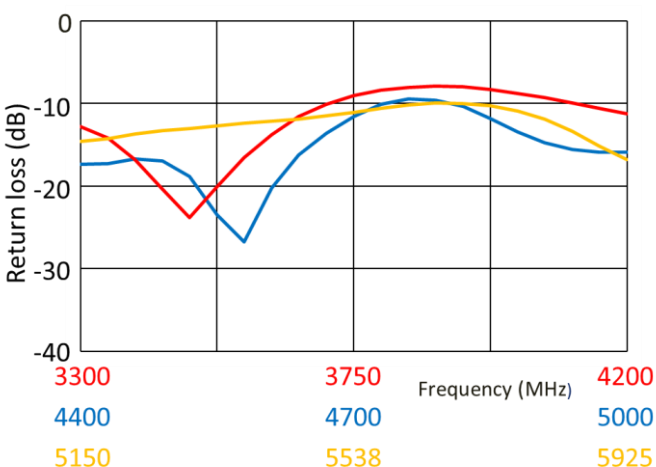
Data measured in free space with hinge at 90 degree bend

RF DATA

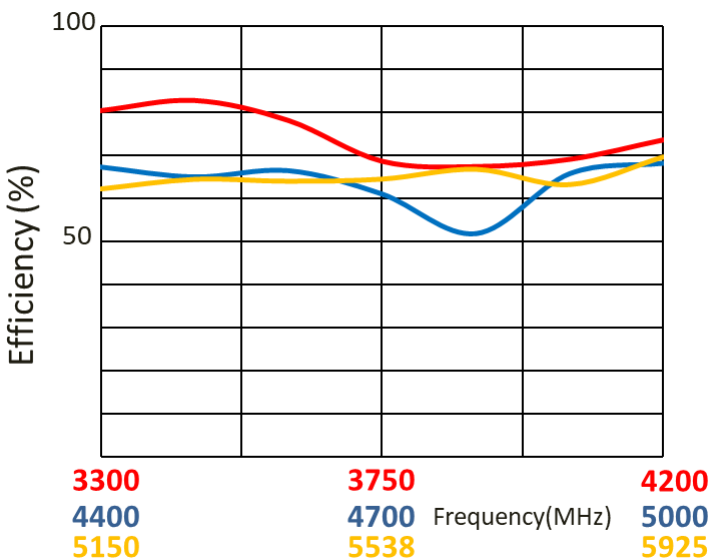
VSWR



Return Loss



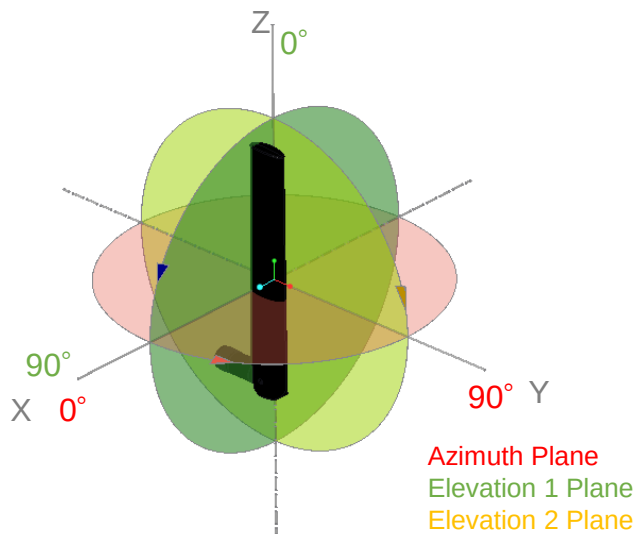
Efficiency



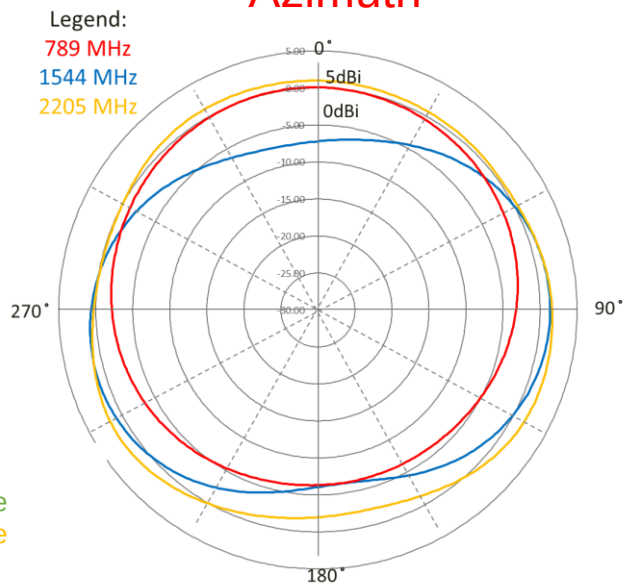
Data measured in free space with hinge at 90 degree bend

RADIATION PATTERN

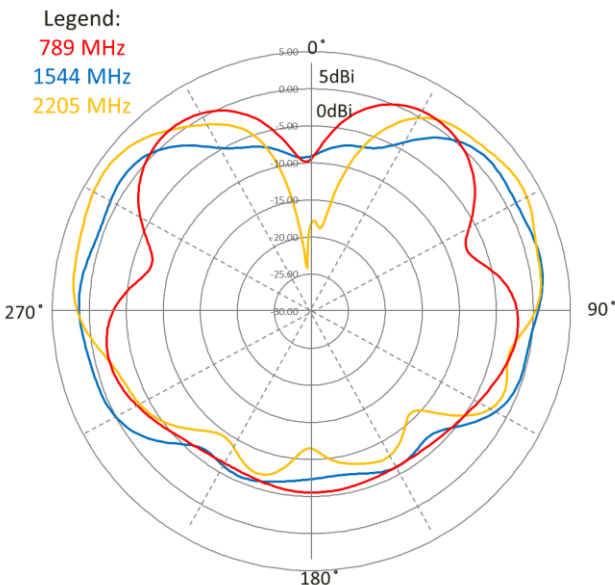
Test setup



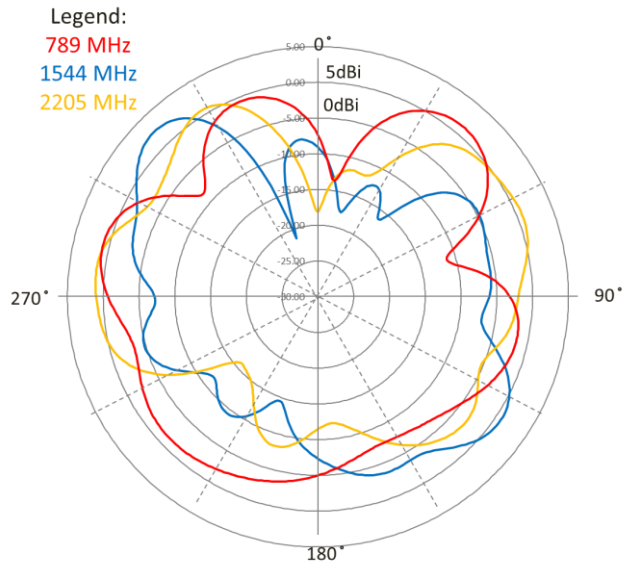
Azimuth



Elevation 1



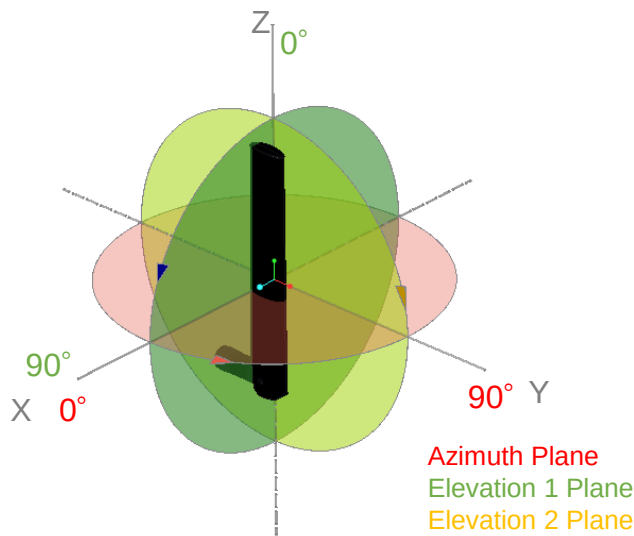
Elevation 2



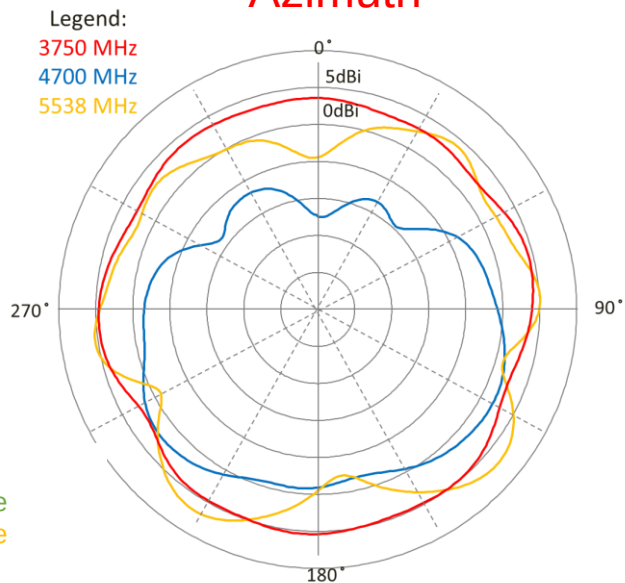
Data measured in free space with hinge at 90 degree bend

RADIATION PATTERN

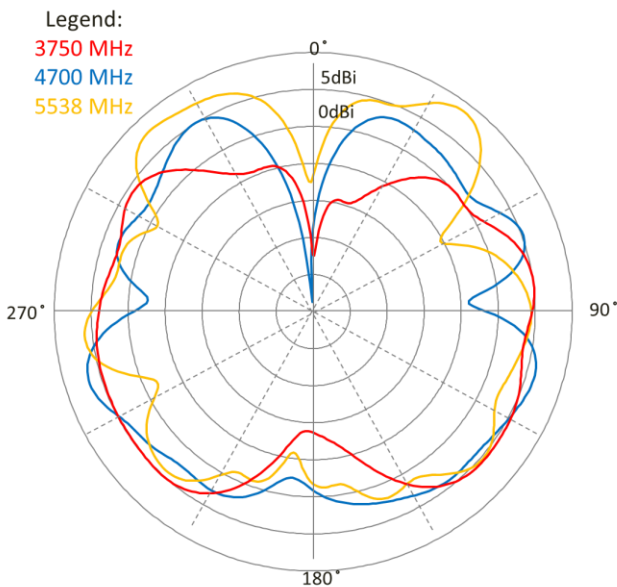
Test setup



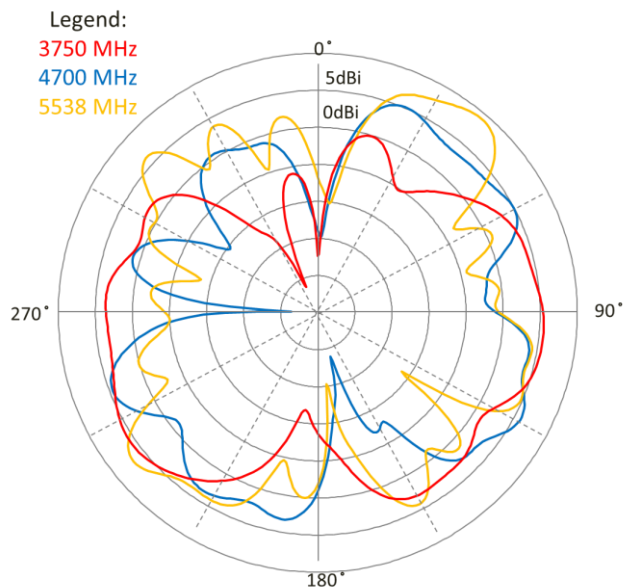
Azimuth



Elevation 1

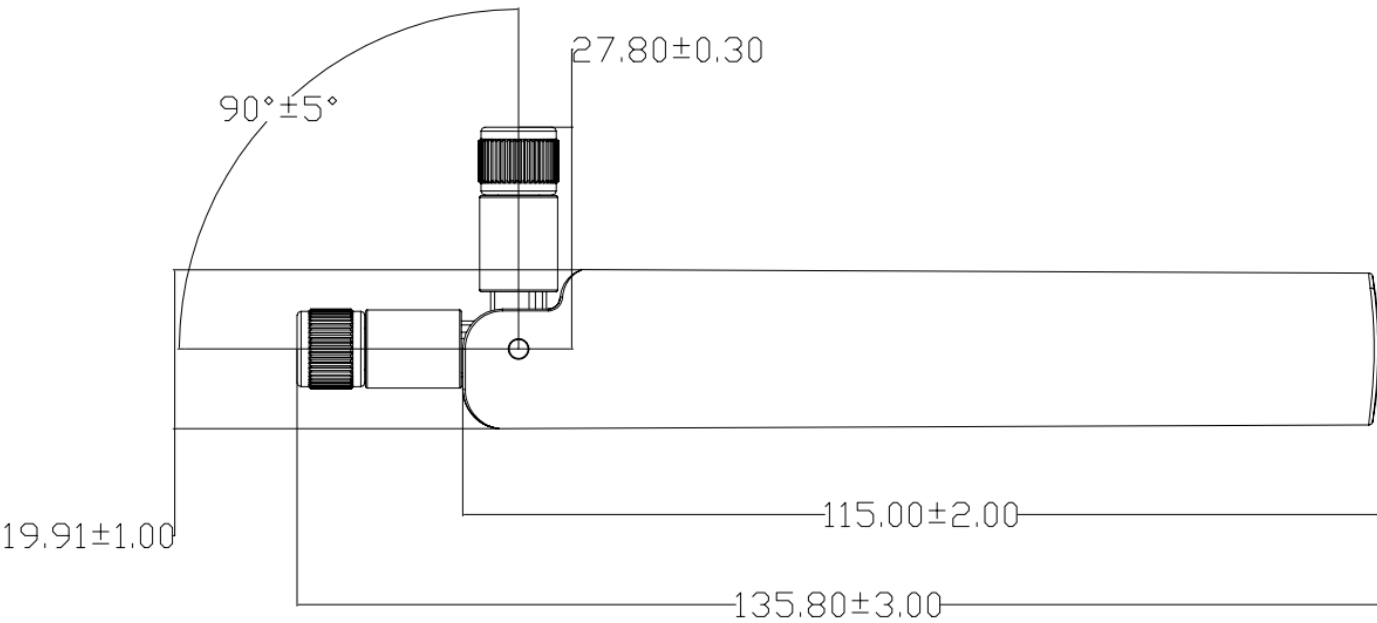


Elevation 2



Data measured in free space with hinge at 90 degree bend

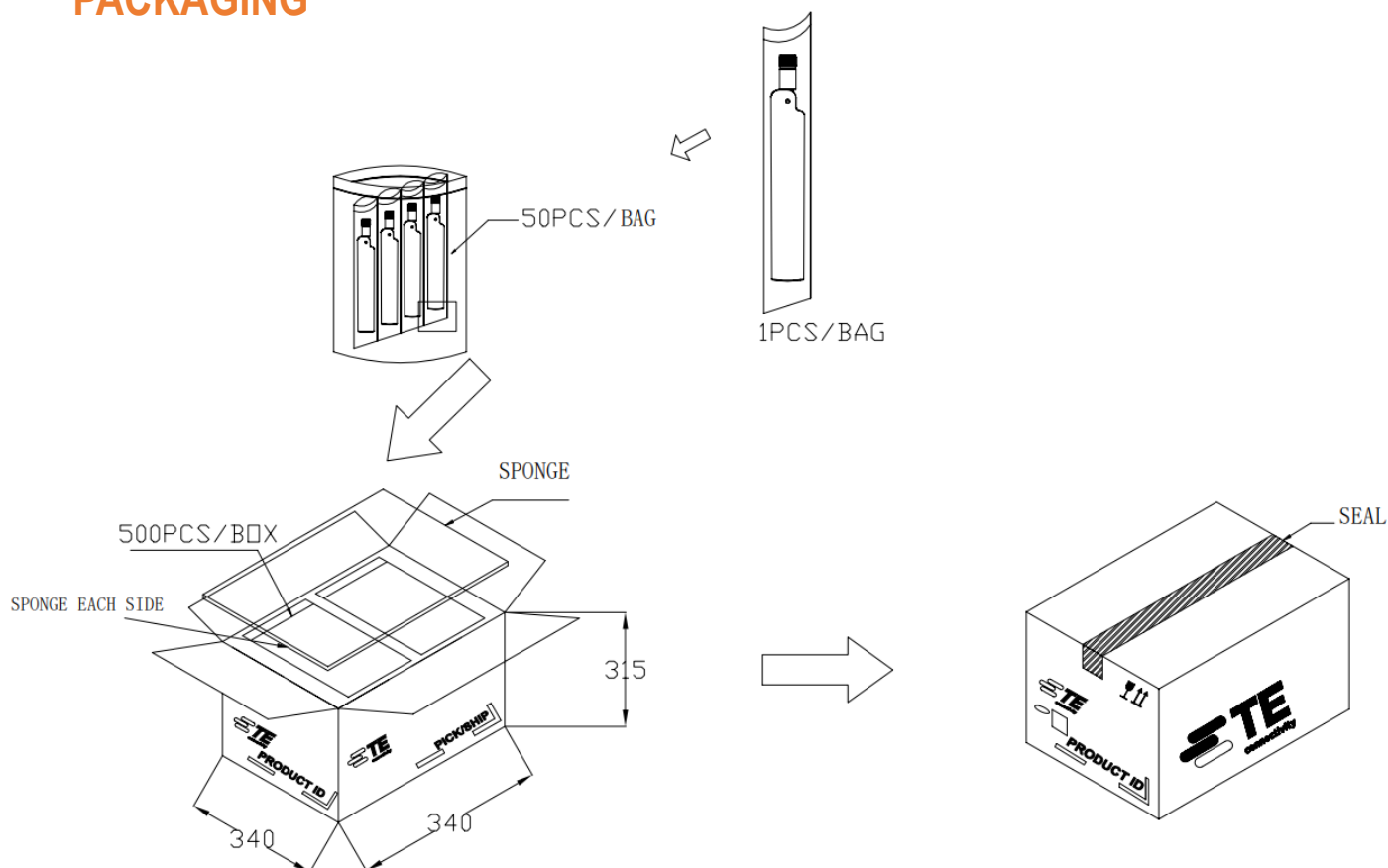
DIMENSIONS



MATING COMPONENTS

2195889-2	WHITE	SMA (Male)	5-1814400-2: SMA JACK, RIGHT ANGLE 	2016682-2: SMA GEN1 (MHF type),1.13 cable, Length=100mm 2016682-4: SMA GEN1 (MHF type),1.13 cable, Length=200mm 
2195889-1	BLACK	SMA (Male)	5-1814832-2: SMA JACK, VERTICAL 	2016694-2: SMA GEN4 (MHF4 type),1.13 cable, Length=100mm 2016694-4: SMA GEN4 (MHF4 type),1.13 cable, Length=200mm 
PART NUMBER	COLOR	CONNECT OR TYPE	RF CONNECTOR	SMA JACK TO MICRO COAX CABLE ASSEMBLIES
MATING COMPONENTS				

PACKAGING



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04/2021



2400-2500 & 5150-5875 MHz DUAL BAND WLAN / BLUETOOTH ANTENNA

Part Numbers: 2344654-1, 2344654-2
2344654-3, 2344654-4
2344654-5, 2344654-6
2344654-7, 2344654-8
2344654-9, 1-2344654-0

FEATURES & BENEFITS

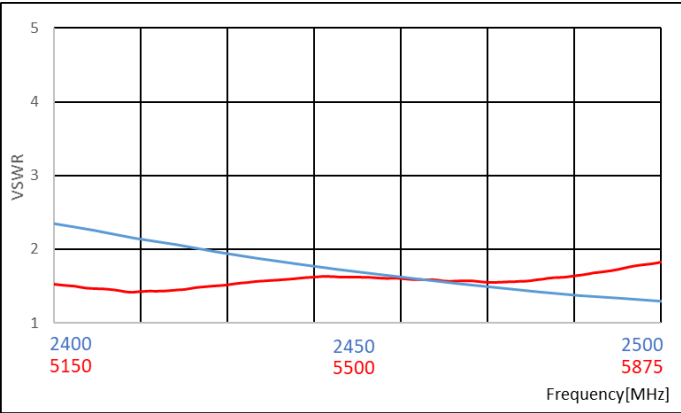
- Adhesive backing on PCB simplifies mounting within the device
- Omnidirectional coverage
- Efficient design reduces power usage
- No matching components required
- Wide selection of micro-coaxial cable lengths from 50 to 200mm

SPECIFICATIONS (Shown as 2344654-1 : Others can vary with different cable lengths.)

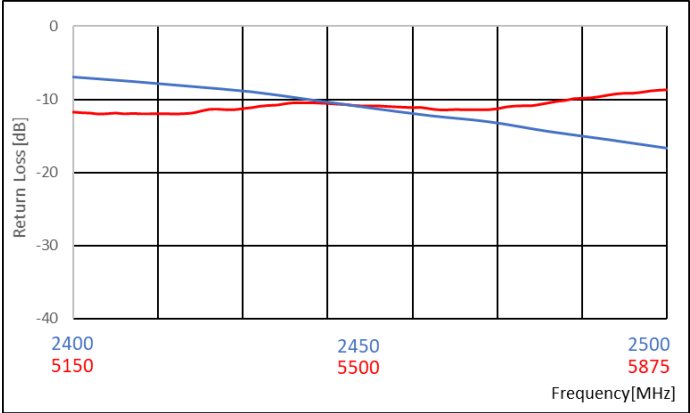
Frequency Range (MHz)	2400-2500	5150-5875
VSWR	< 3.0:1	< 3.0:1
Average Efficiency	60%	70%
Peak Gain	1.5dBi	5.7dBi
Average Gain	-1.5dB	-1.7dB
Power Handling	10 Watt cw	
Feed Point Impedance	50 ohms unbalanced	
Polarization	Linear	
Size	30 mm x 9.5 mm x 1.0 mm	
Weight	< 0.8 g	
Mounting	Adhesive Tape	
Mating Connector	MHF and MHF4-type, Refer to page 5	
Cable (Coaxial)	0.81mm and 1.13mm 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 2344654-1 : Others can vary with different cable lengths.)

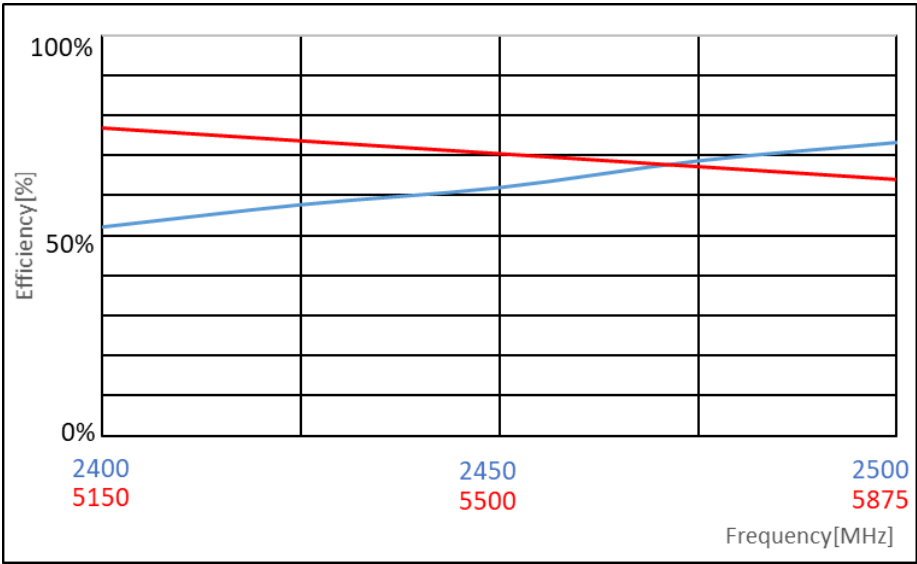
VSWR



Return Loss



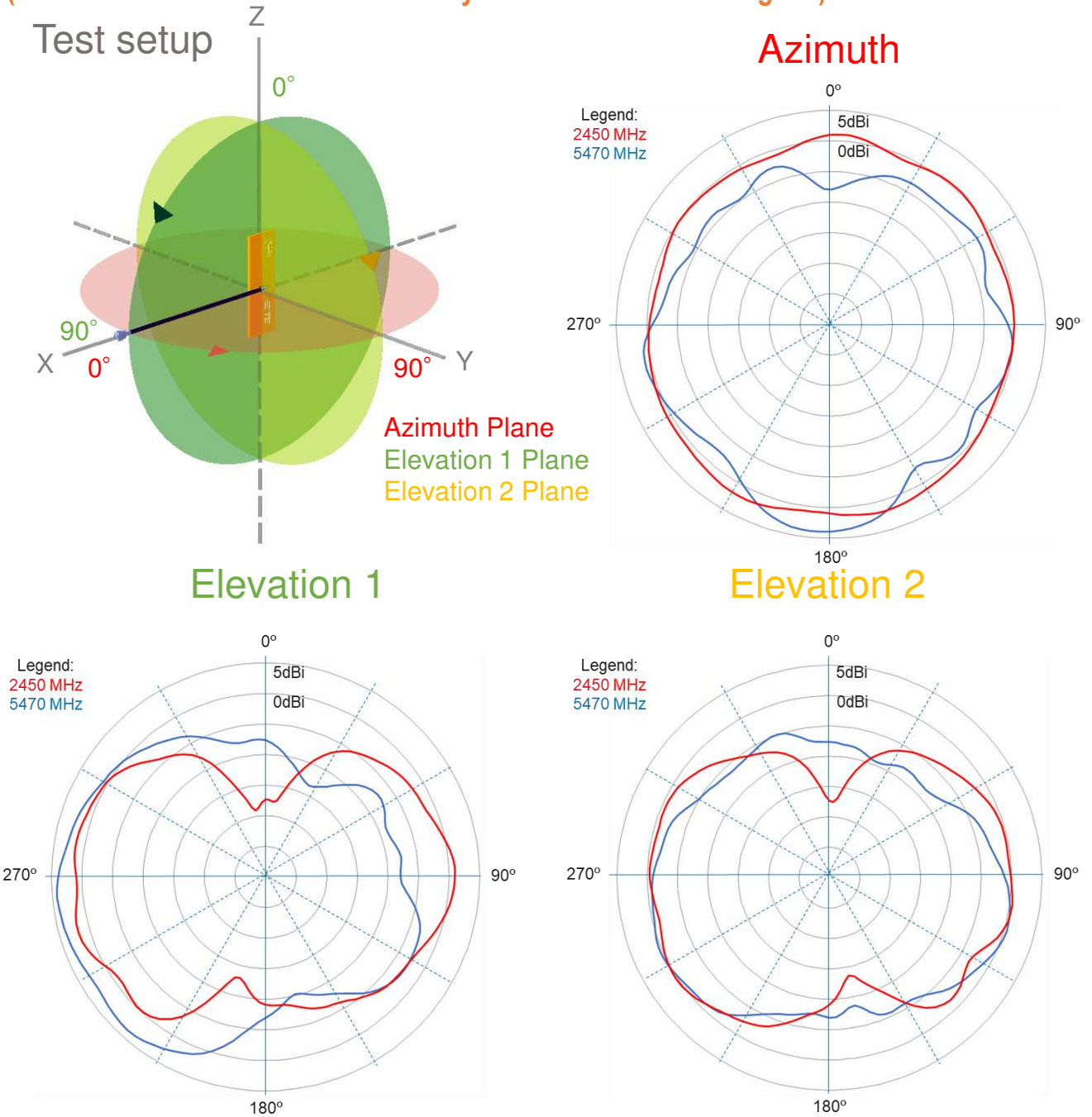
Efficiency



Data measured in free space and on plastic board.

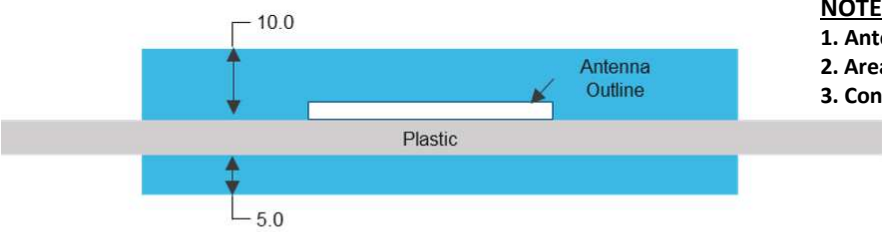
RADIATION PATTERN

(Shown as 2344654-1 : Others can vary with different cable lengths.)

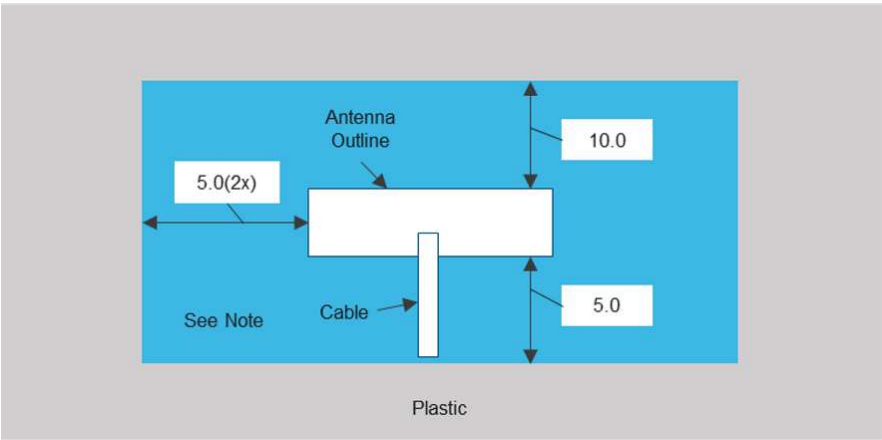


Data measured in free space and on plastic board.

KEEP OUT AREA



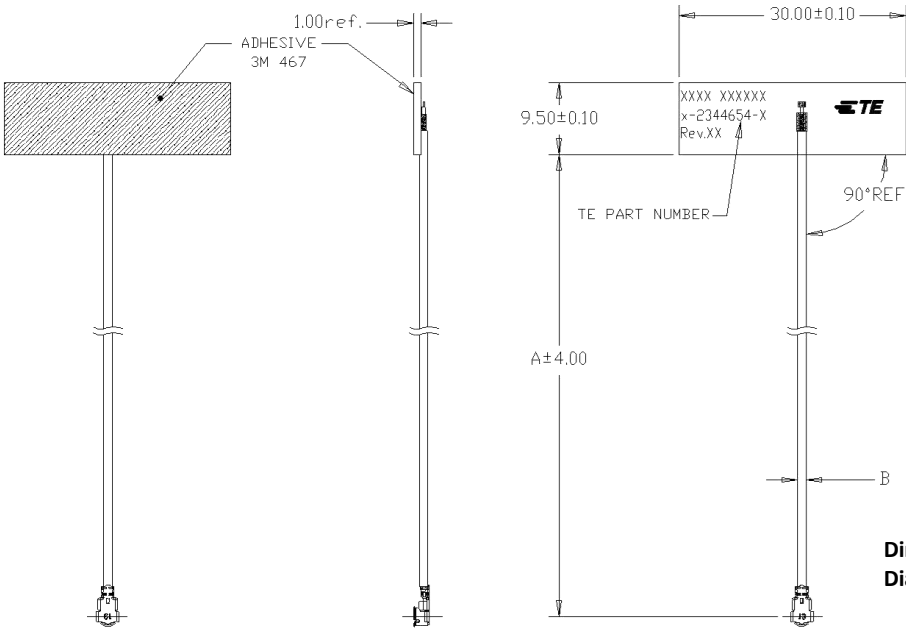
- NOTES**
- 1. Antenna designed to be mounted on plastic cover.
 - 2. Area in blue indicates Keep Out Area
 - 3. Contact TE if keep out zone cannot be guaranteed.



Dimension: mm
Diagrams is not into scale

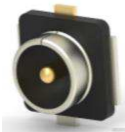
DIMENSIONS

(Refer to Page5 for dimension “A” and “B”)

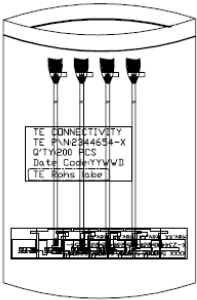
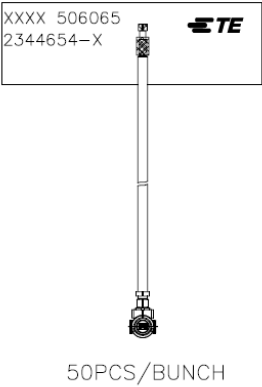


Dimension: mm
Diagrams is not into scale

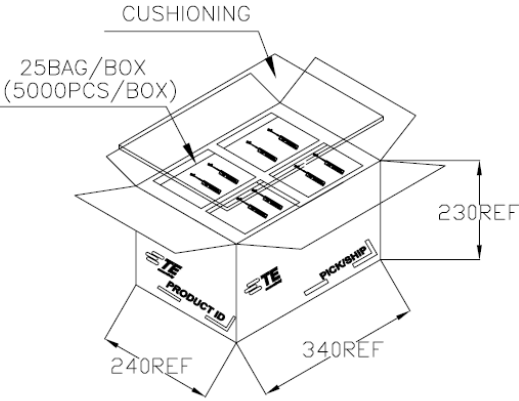
MATING COMPONENTS TO PART NUMBERS AND DIMENSIONS

2344654-1	50	1.97	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2344654-2	100	3.94	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2344654-3	150	5.91	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2344654-4	200	7.87	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2344654-9	350	13.78	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
1-2344654-0	180	7.08	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2344654-5	50	1.97	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2344654-6	100	3.94	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2344654-7	150	5.91	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2344654-8	200	7.87	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
PART NUMBER	MM	INCH	CABLE O.D("B"), MM	CONNECTOR TYPE (ON CABLE)	PART NUMBER	IMAGE
	CABLE LENGTH ("A")				MATING COMPONENTS	

PACKAGING



200PCS/BAG
DESICCANT:1PCS/BAG



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12/2021



698-960, 1710-2700 MHz LTE ANTENNA

Part Numbers: 2195890-1

FEATURES & BENEFITS

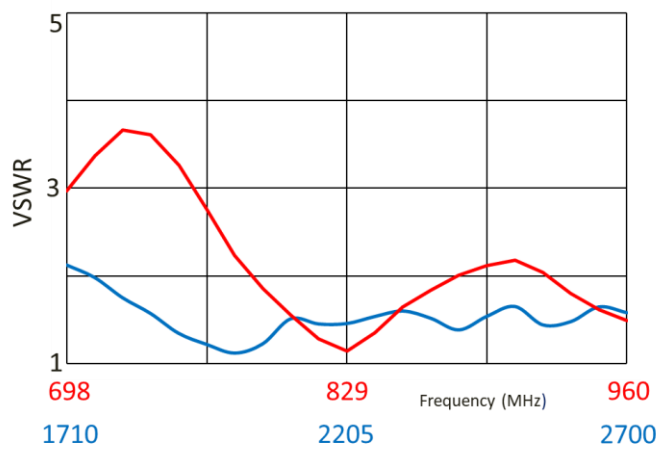
- 2G, 3G, 4G, NB-IoT, LoRa, Sigfox, Wi-Fi 2.4, ZigBee, Bluetooth
- External chassis mount antenna
- ROHS compliant

SPECIFICATIONS

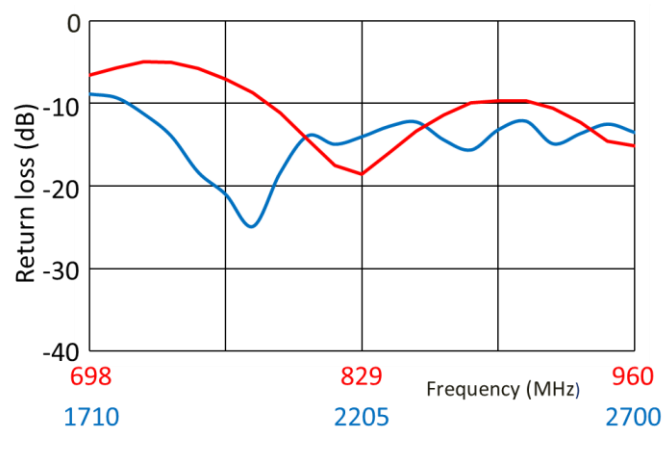
Frequency Range (MHz)	698-960	1710-2700
VSWR	< 3.7:1	< 2.2:1
Average Efficiency	62%	64%
Peak Gain	3.2dBi	3.9dBi
Average Gain	-2.2dBi	-2.0dBi
Power Handling	10 Watt cw	
Feed Point Impedance	50 ohms	
Polarization	Linear	
Size	115.0mm x Ø 10.0 (mm)	
Weight	< 17.2 g	
Mounting	Terminal mount	
Mating Connector	SMA Female	
Cable	N/A	
Operating Temperature	-30 to +75°C	
Storage Temperature	-30 to +75°C	
Hazardous Materials	A certificate of conformance is available from the product page on TE website.	

RF DATA

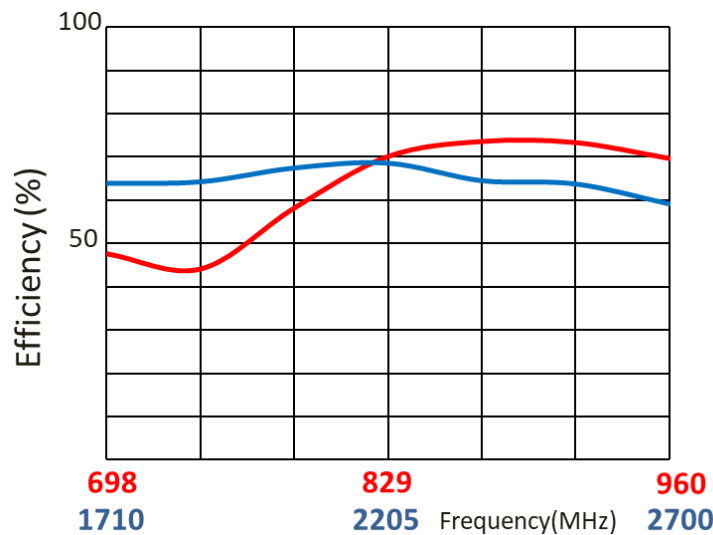
VSWR



Return Loss

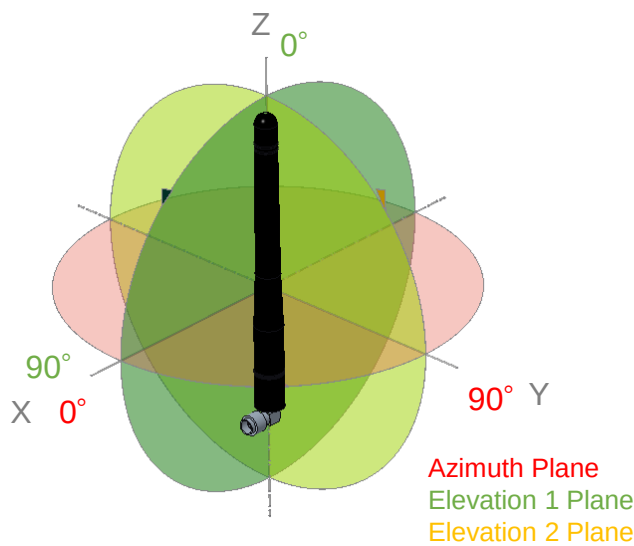


Efficiency

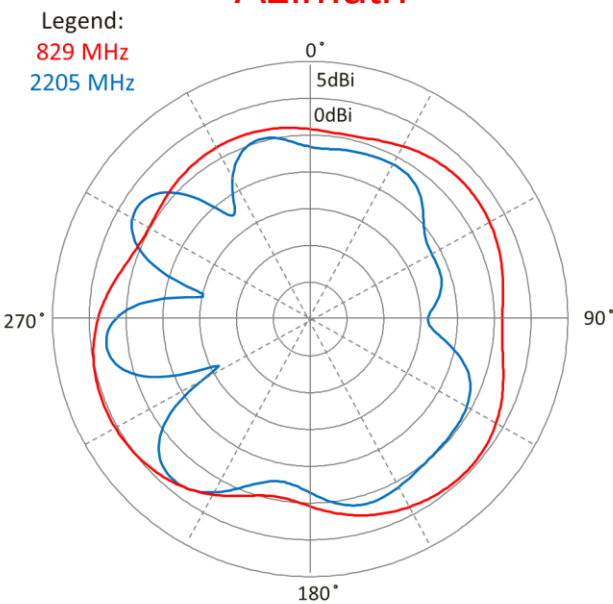


RADIATION PATTERN

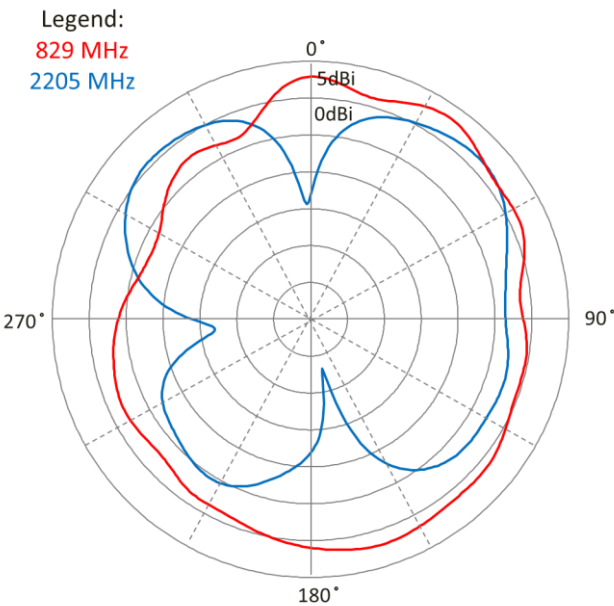
Test setup



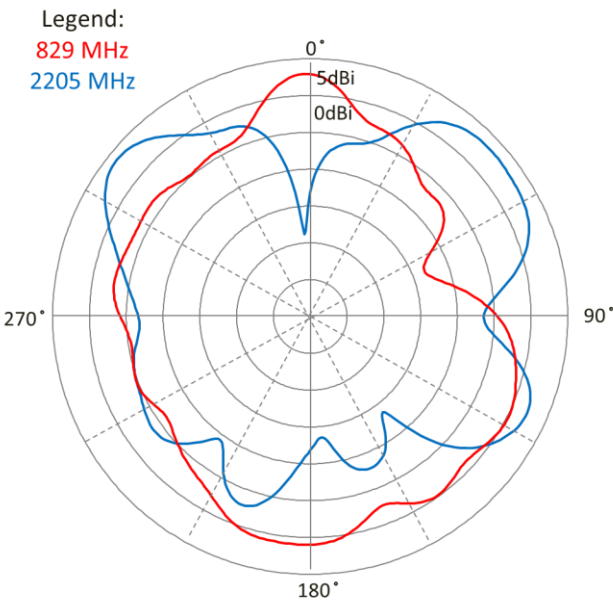
Azimuth



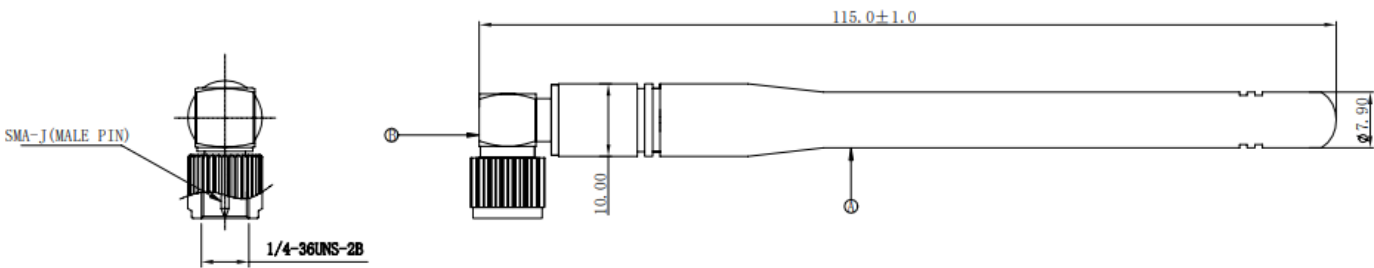
Elevation 1



Elevation 2

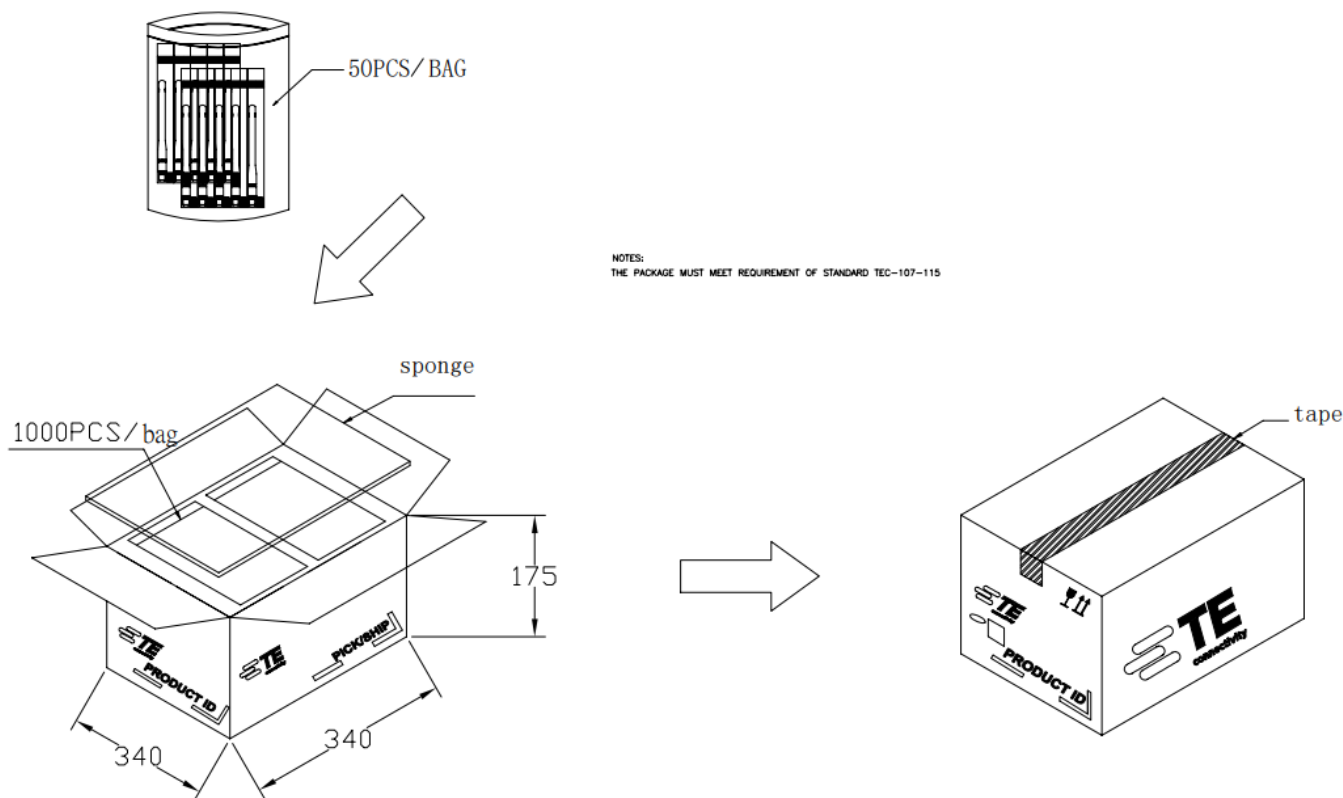


DIMENSIONS



Dimensions: mm
Diagram is not to scale

PACKAGING



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