



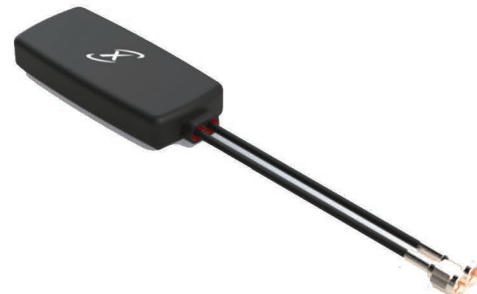
MEA-4950-ISM-AM

2.4/5.0/6.0 GHz ISM MIMO Adhesive Mount

Part #: 100-00331-01

Description

The MEA-4950-ISM-AM is a 3-in-1 antenna that combines high performance 5G, MIMO, and ISM standard. The antenna's excellent radiation pattern, exceptional out-of-band rejection, and low noise figure ensures optimal performance. It features a 3m cable with an integrated SMA Male, SMB, or MCX connector (customer choice). This low-profile adhesive mount is ideal for public safety, utilities tracking, and IOT applications. This antenna offers an ultra-low-profile design with easy mounting and customizable cables and connector options. The antenna is designed with rugged ASA black housing and is ideal for the most demanding environmental challenges. The MEA-4950-ISM-AM is IP67 rated.



Electrical Specifications

Cable 1	Parameter	Specifications		
	Standards	WiFi, BT, ZigBee, ISM		
	Band	2.4 GHz	5.0 GHz	6.0 GHz
	Efficiency (%)	~50.1	~46.8	~45.1
	Frequency(MHz)	2410-2490	4920-5925	5925-7125
	Return Loss	~21.9	~16.0	~13.5
	VSWR	~1.2:1	~1.5:1	~1.6:1
	Peak Gain (dBi)	~5.5	~6.2	~4.7
	Average Gain (dB)	~3.0	~3.8	~4.1
	Impedance (Ohm)	50		
	Polarization	Linear		
	Radiation Pattern	Omni-Directional		
	Max Input Power	25		
	Connector Type	Most RF Connectors (SMA-Male Standard)		
	Cable Length	Any Cable Length (300cm Standard)		
	Cable Type	Other Cables Available (LL100 Standard)		

Cable 2	Parameter	Specifications		
	Standards	WiFi, BT, ZigBee, ISM		
	Band (MHz)	2.4 GHz	5.0 GHz	6.0 GHz
	Frequency(MHz)	2410-2490	4920-5925	5925-7125
	Return Loss	~18.4	~13.2	~10.9
	VSWR	~1.3:1	~1.7:1	~2.0:1
	Peak Gain (dBi)	~4.0	~6.1	~5.1
	Average Gain (dB)	~3.1	~4.0	~4.5
	Impedance (Ohm)	50		
	Polarization	Linear		
	Radiation Pattern	Omni-Directional		
	Connector Type	Most RF Connectors (SMA-Male Standard)		
	Cable Length	Any Cable Length (300cm Standard)		
	Cable Type	Other Cables Available (LL100 Standard)		

Features

- Cable 1-2: 2.4/5.0/6.0 GHz ISM – 2410-2490 MHz - 4920-7125 MHz
- Adhesive mount
- Wifi 6E Antenna
- Ground Plane Independent
- IP67, IP69
- 83 x 35 x 13.3 mm
- Compact Size
- Customizable Cable and Connector

Applications

- IoT applications
- Transportation
- Tracking/ Mapping devices
- Asset Tracking
- Telematics
- Container & Logistics
- Automotive
- Industrial Applications



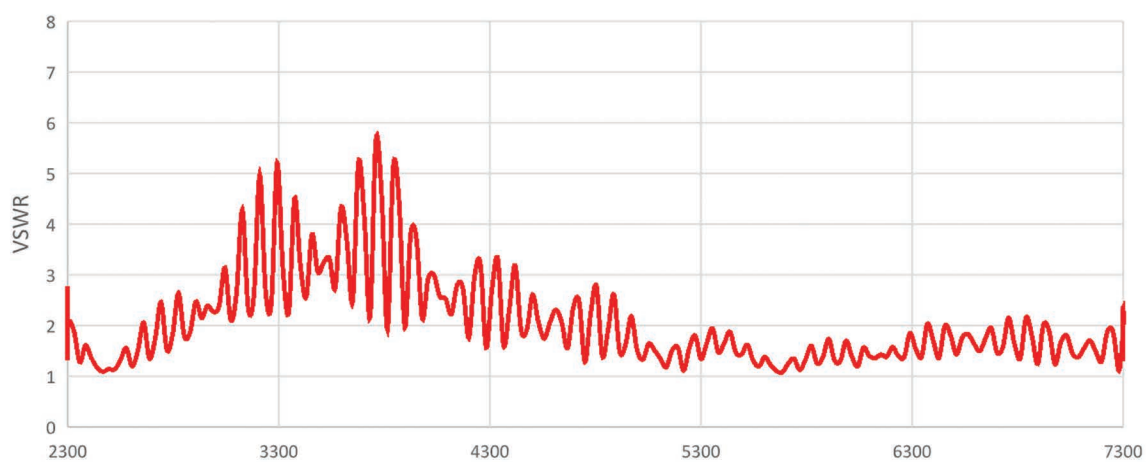
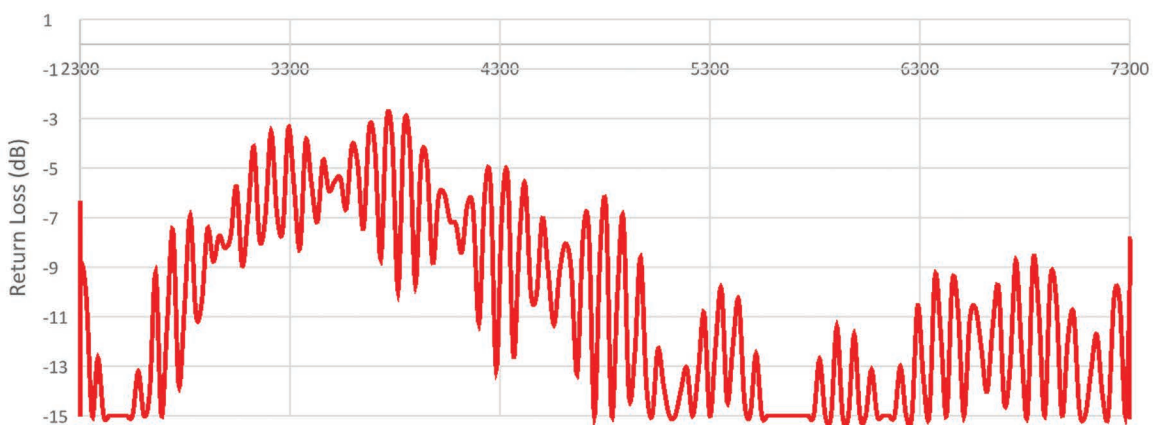
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Mechanical Specifications

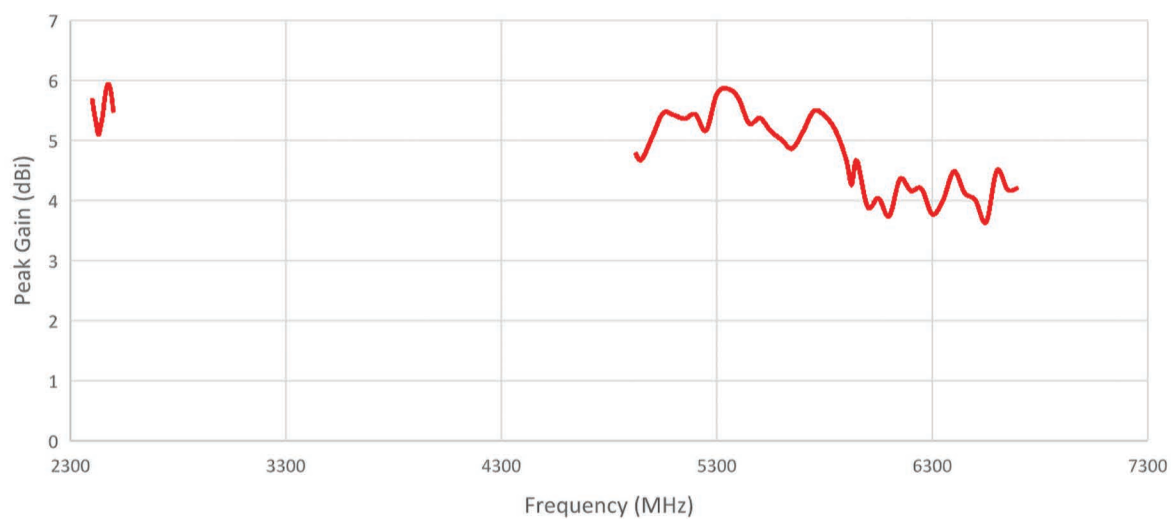
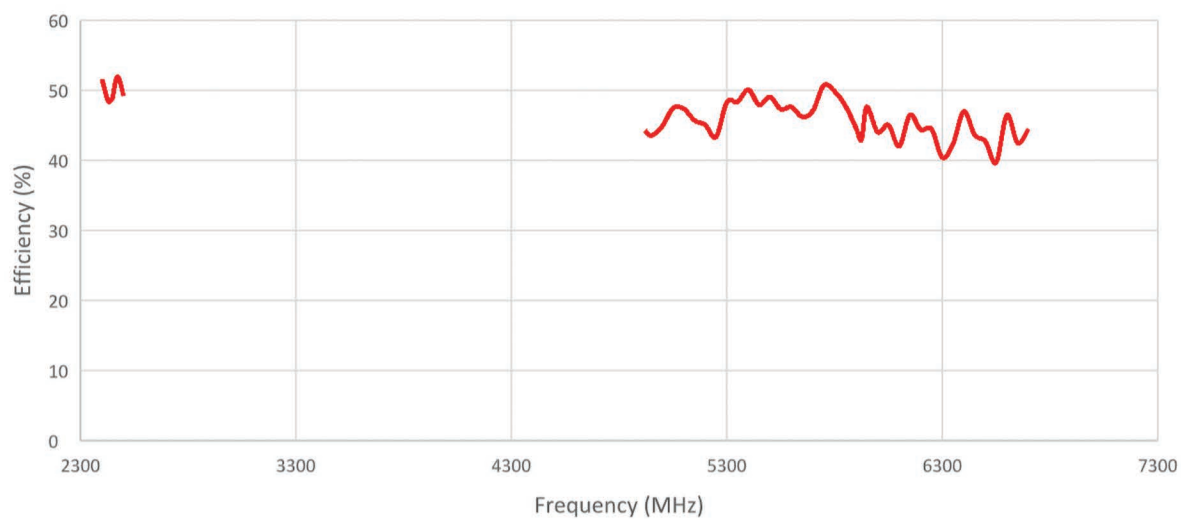
Parameter	Specifications
Antenna Dimensions (mm)	83 x 35 x 13.3
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Mounting Type	Adhesive Mount
Radome Type/Color	ABS UV Stable/ Black
Substance Compliance	RoHS
Ingress Protection	IP67, IP69

Antenna Parameters

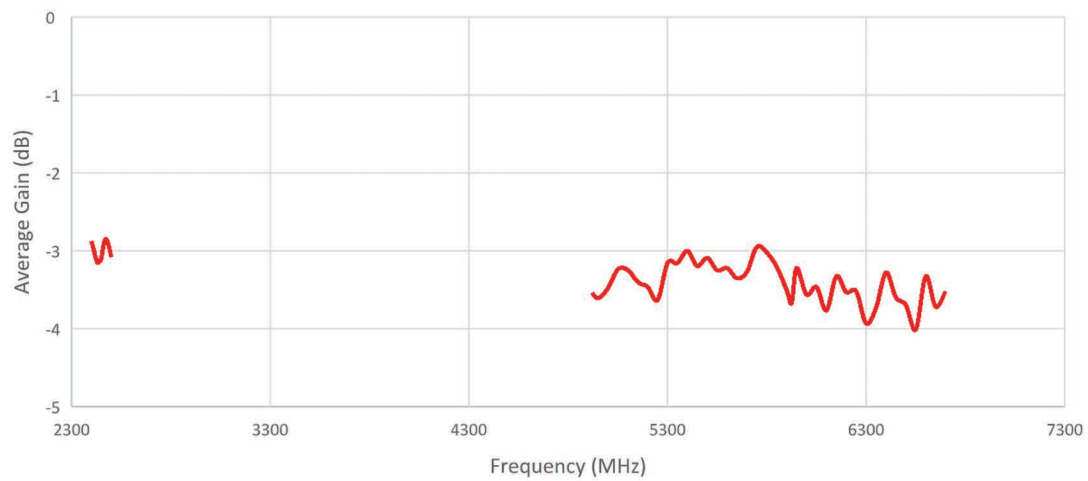
Cable 1



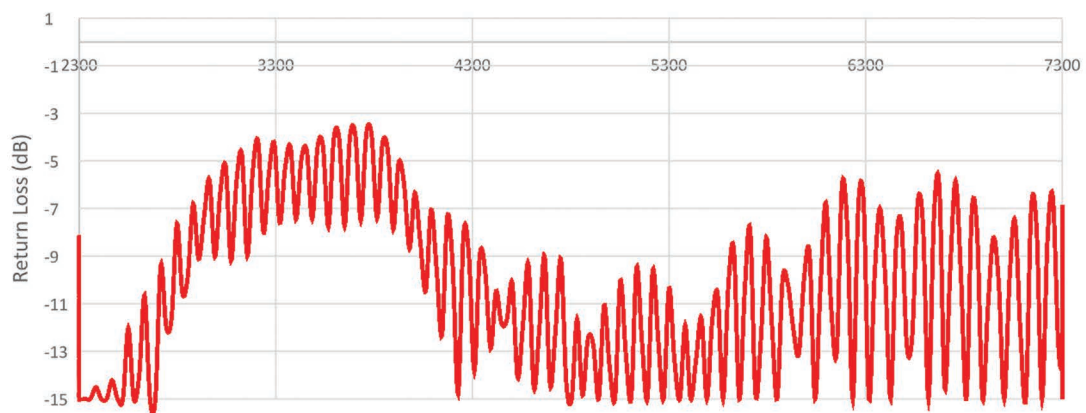
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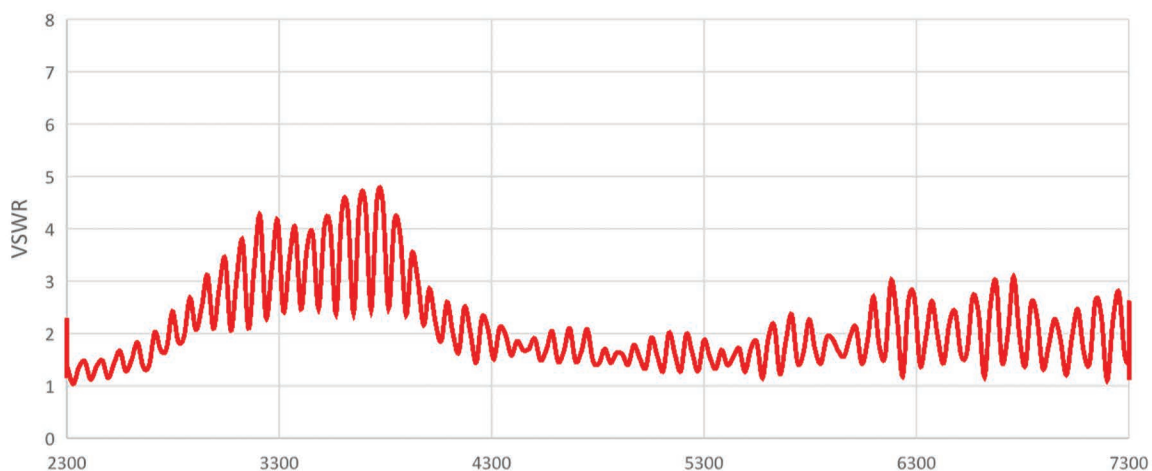


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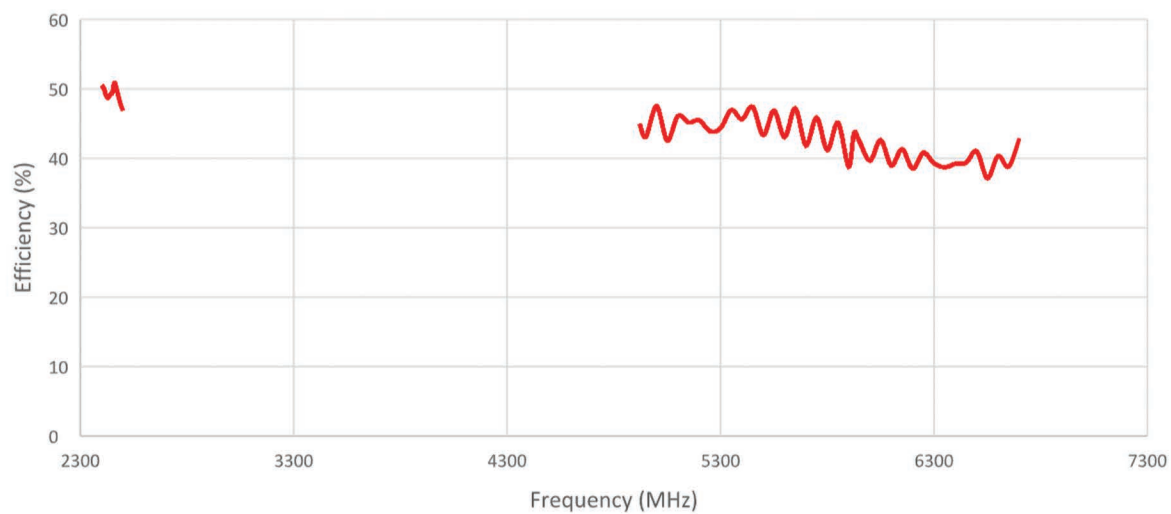


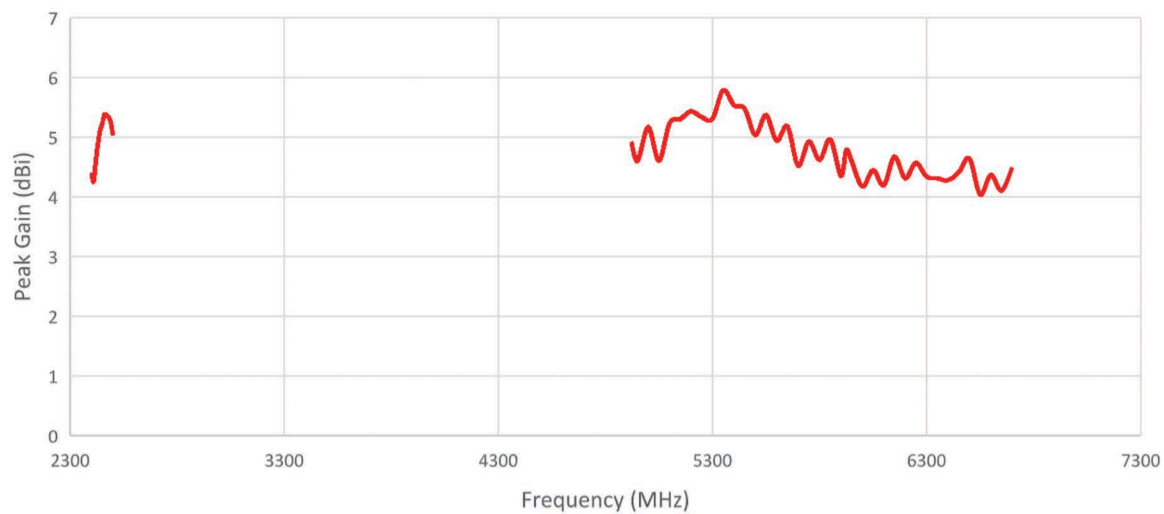
Cable 2



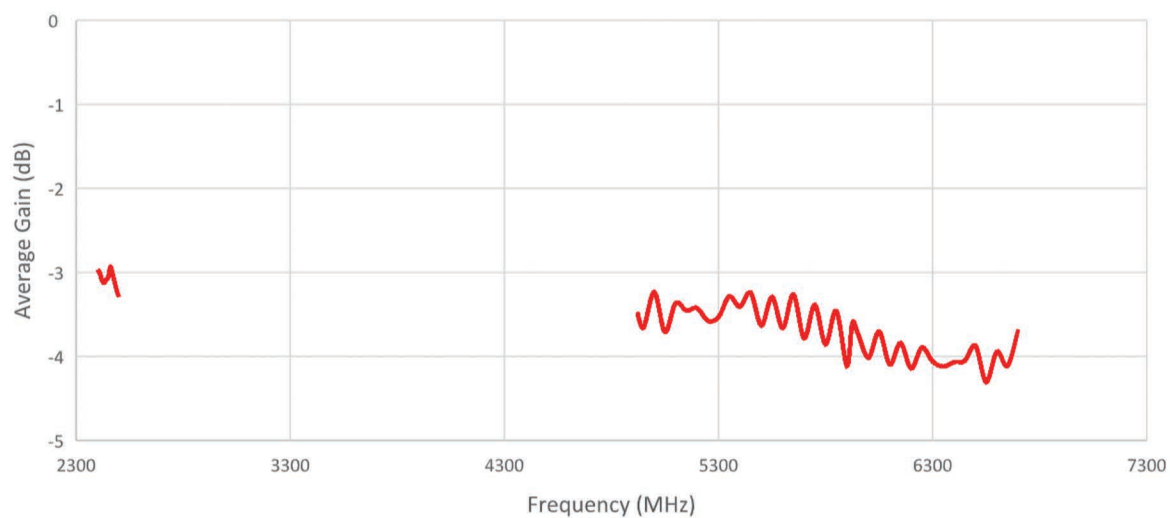


Cable 2

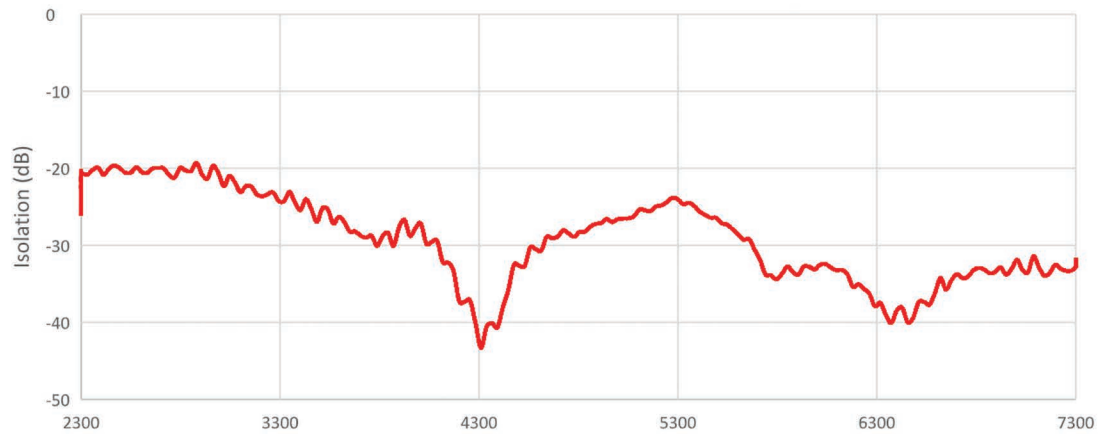




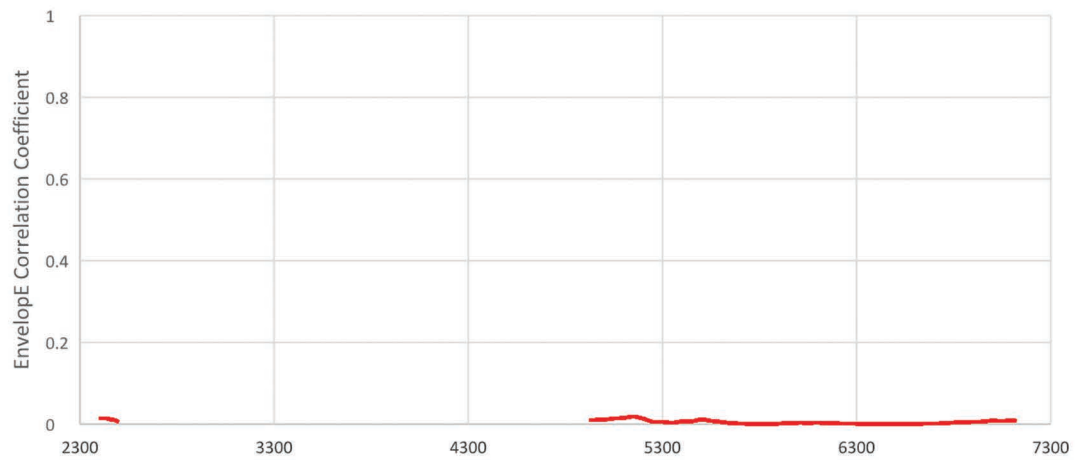
Cable 2



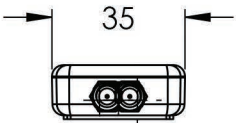
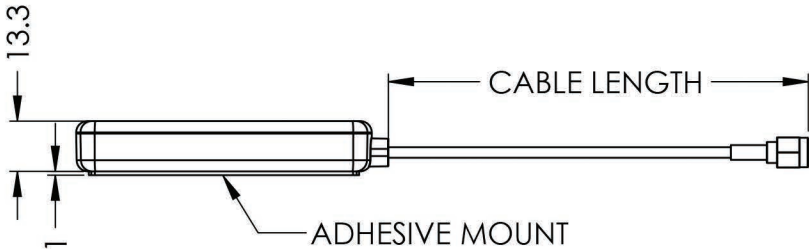
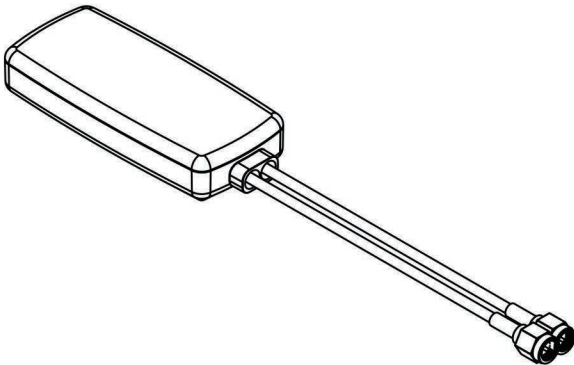
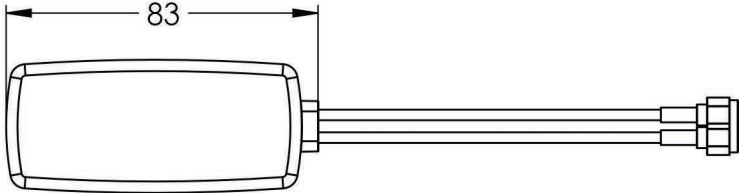
ISOLATION FOR CABLES 1 AND 2



ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2



DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2023-11-23	MP



NOTES:

1. FREQUENCY:
 - CABLE 1-2: 2.4/5.0/6.0 GHz ISM
2. CUSTOMIZABLE CABLE AND CONNECTOR OPTIONS
3. MOUNTING TYPE: ADHESIVE MOUNT
4. DIMENSIONS ARE AFTER MOUNTING
5. MATERIALS:
 - RADOME: ABS UV STABLE
 - RADOME COLOR: BLACK
6. OPERATING TEMPERATURE: -40°C ~ +85°C
7. STORAGE TEMPERATURE: -40°C ~ +85°C
8. CERTIFICATIONS: IP67, IP69

ITEM 100-00331-01 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2023-11-23	MP

100-00331-01 CONFIGURATION TABLE				
DASH NO	CABLE TYPE	CABLE LENGTH	CONNECTOR TYPE	RADOME COLOR
-01	CABLE 1: LL100	300CM	SMA MALE	BLACK

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FRACTIONAL ±		ENG APPR.	AV		
ANGULAR: MACH ± .5° BEND ±		MFG APPR.		TITLE:	
ONE PLACE DECIMAL ± 1.0		Q.A.			
TWO PLACE DECIMAL ± .50		CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.		100-00331-01	
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				SIZE	REV
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