

2.4GHz Weather-Proof Whip Antenna



AANE-WH-0209

Request Samples



Check Inventory



Ø10 x 172 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Features

- 2.4GHz Dipole Whip Antenna
- Peak Gain 2.0 dBi
- High Efficiency up to 75%
- Swivel Connector Design for Straight, Right-Angle and 45-Degree Positioning
- Weather-Proof and IP65 Rated
- Fully Customizable Connectors

Applications

- Bluetooth® / ZigBee® / Thread / Matter / Wi-Fi®
- Bluetooth® / Wi-Fi® Modules
- Medical Wearables & Tele-Medicine
- Smart Home & Smart Building
- Asset Tracking & Telematics
- Smart Metering
- Intelligent Lighting

Product Image



12117 Bee Caves Rd, Bldg-3, Suite 200 Bee
Cave, TX 78738
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

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ISO9001-2015
CERTIFIED

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Electrical Specification

Parameter	Specification	Unit
Operating Frequency	2400 - 2500	MHz
VSWR (Typ.)	< 2.0	
Peak Gain	2.0	dBi
Maximum Efficiency	75	%
Average Efficiency	72	%
Impedance	50	Ω
Polarization	Linear	
Radiation Pattern (Azimuth)	Omni-directional	
Input Power (Ambient 25°C)	5	W

Please note: All measurement data is based on the standard configuration (conducted in free space unless otherwise specified).

Mechanical Specification

Parameter	Specification
Dimensions	Ø10 x 172 mm
Material	UV Resistant ABS (Optional)
Recommended Torque for Mounting	0.565 N·m
Color	Black
Antenna Type	Whip (Dipole)
RF Connector ⁽¹⁾	RP-SMA(M)

(1): Fully Customizable Connectors

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
IP Rating	IP65 (Optional)
RoHS Complaint	Yes



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Ordering Information

Part Number	Description	Connector Option
AANE-WH-0209-1	2.4GHz Weather-Proof Whip Antenna with RP-SMA(M) Connector, IP65 & UV-Resistant Housing	RP-SMA(M)
AANE-WH-0209-2	2.4GHz Weather-Proof Whip Antenna with SMA(M) connector, IP65 & UV-Resistant Housing	SMA(M)
AANE-WH-0209-3	2.4GHz Whip Antenna with RP-SMA(M) connector	RP-SMA(M)
AANE-WH-0209-4	2.4GHz Whip Antenna with SMA(M) connector	SMA(M)

Note: Different connector configurations that are not listed may be available upon request via [Abracon online support](#)



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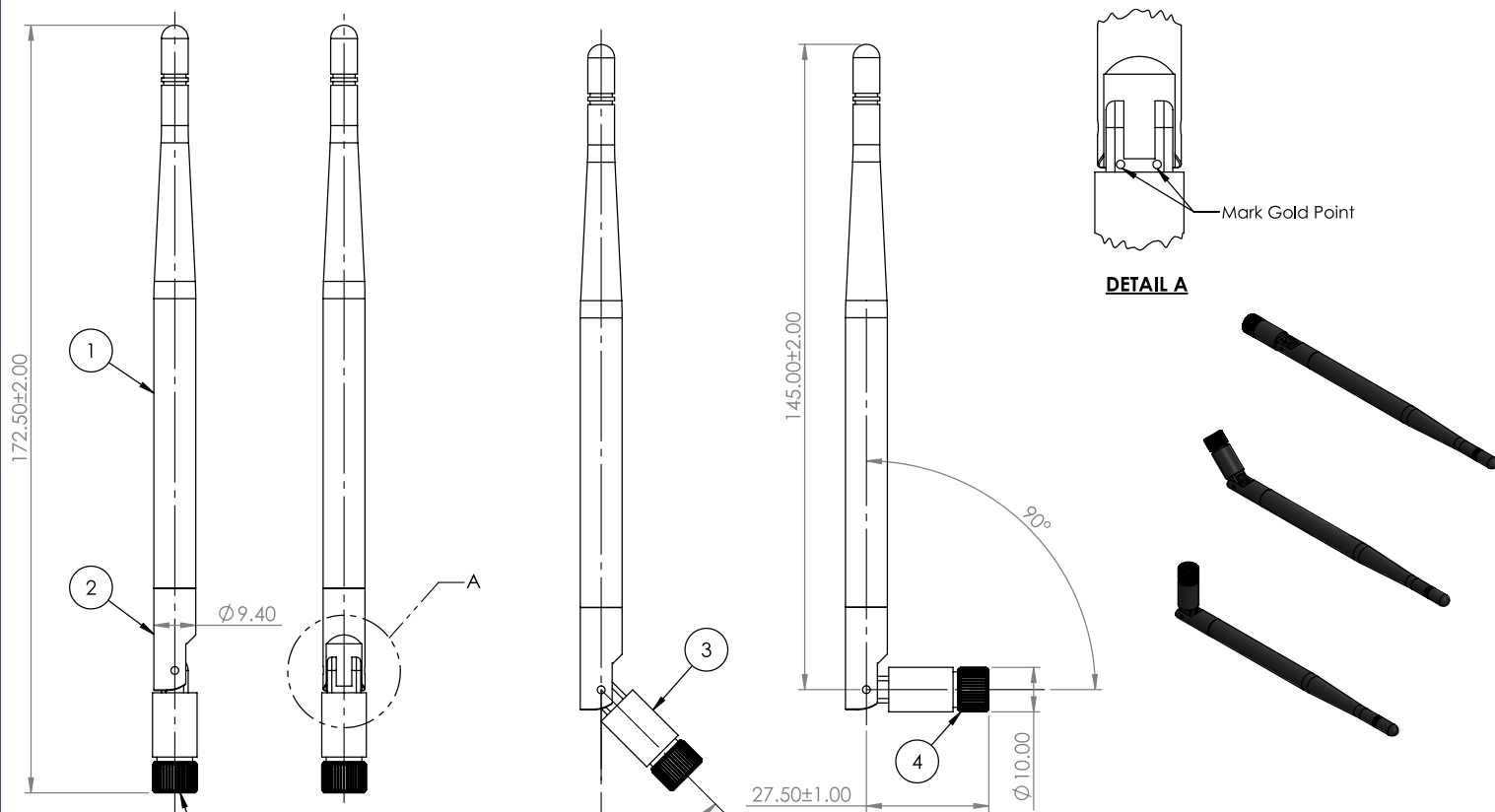


Ø10 x 172 mm

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Product Dimensions



Unit : mm

No.	Name	Material	Finish
1	Body 1	TPEE	Black
2	Body 2	ABS	Black
3	Body 3	ABS	Black
4	Connector	RP-SMA(M)	Black

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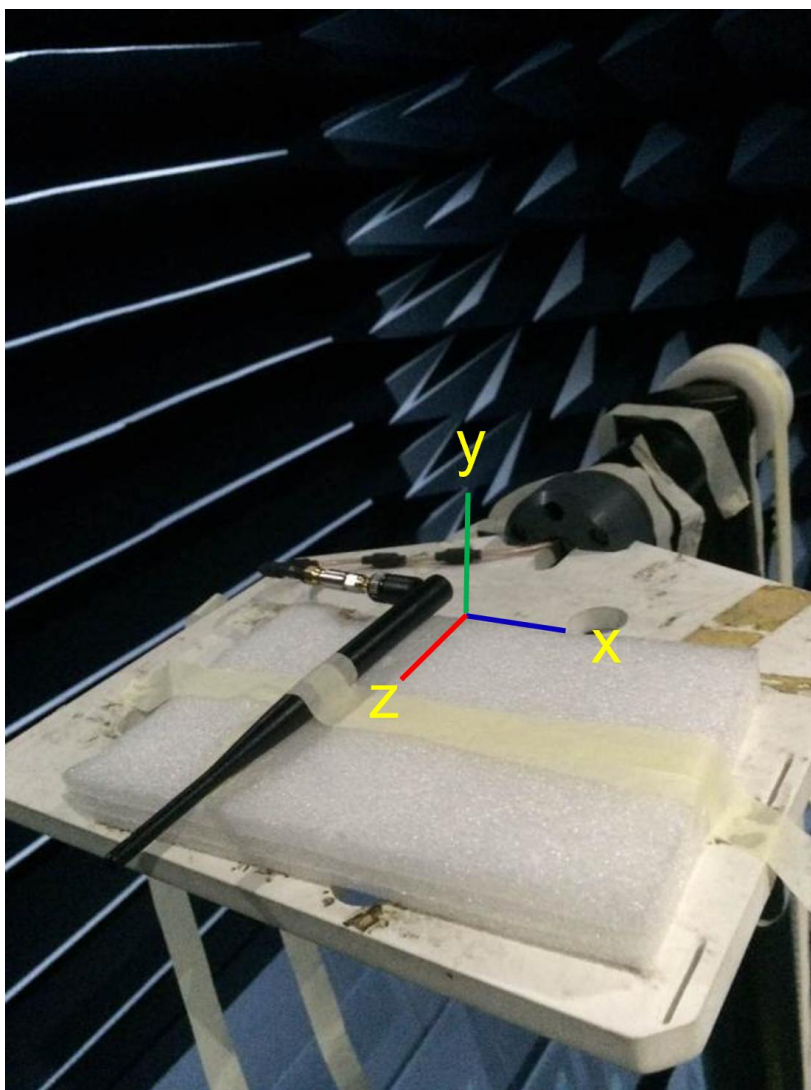


Ø10 x 172 mm

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Measurement Setup



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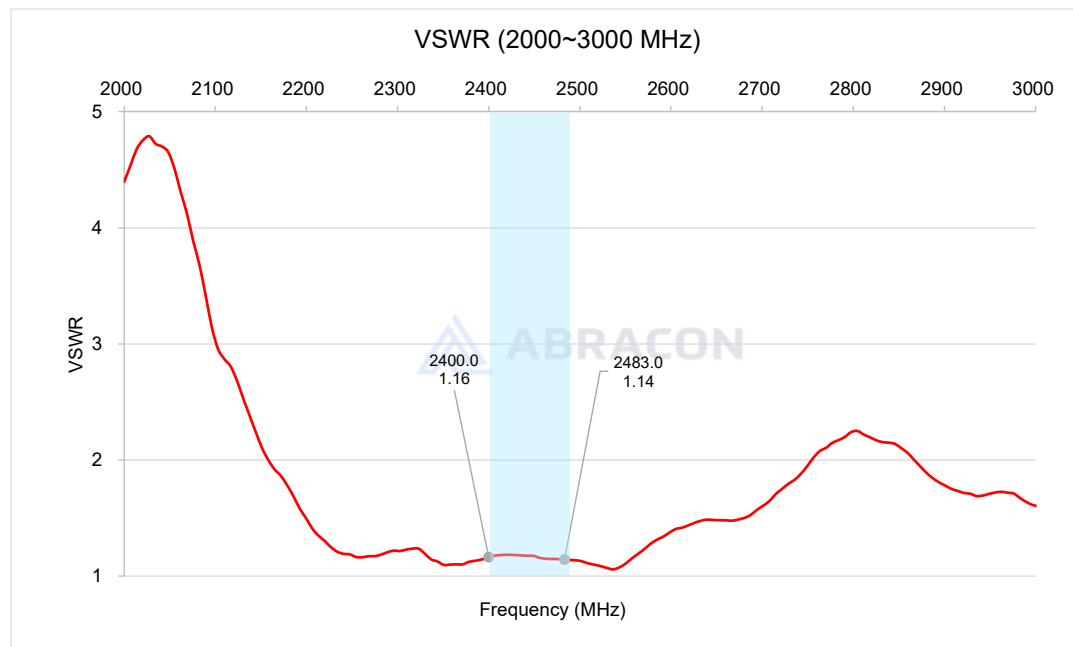
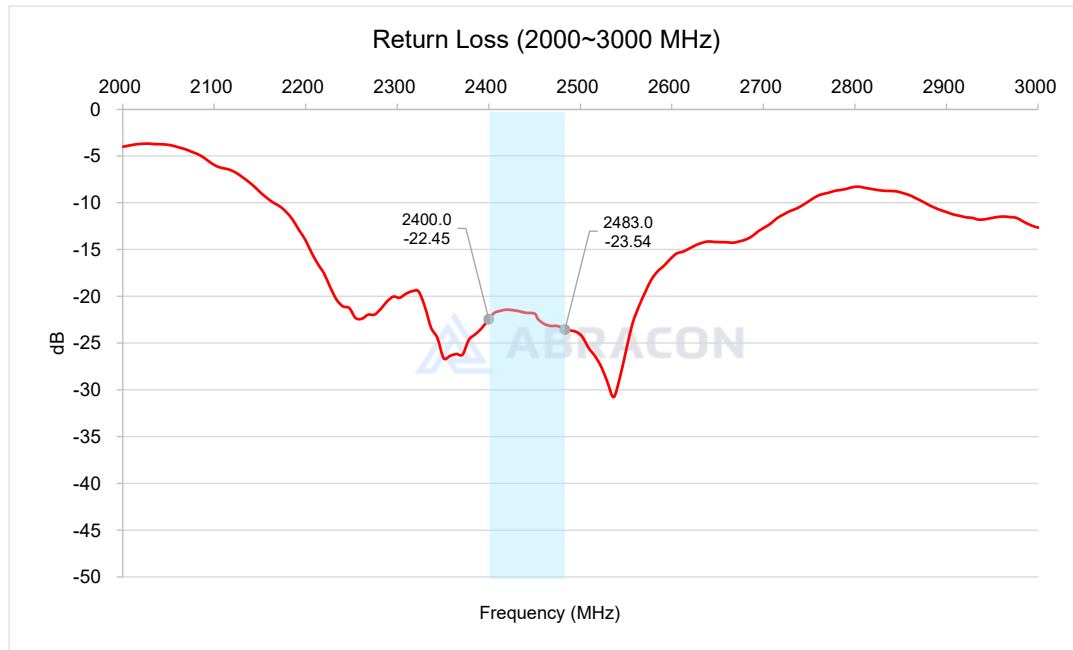


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Reflection Characteristics – Return Loss & VSWR



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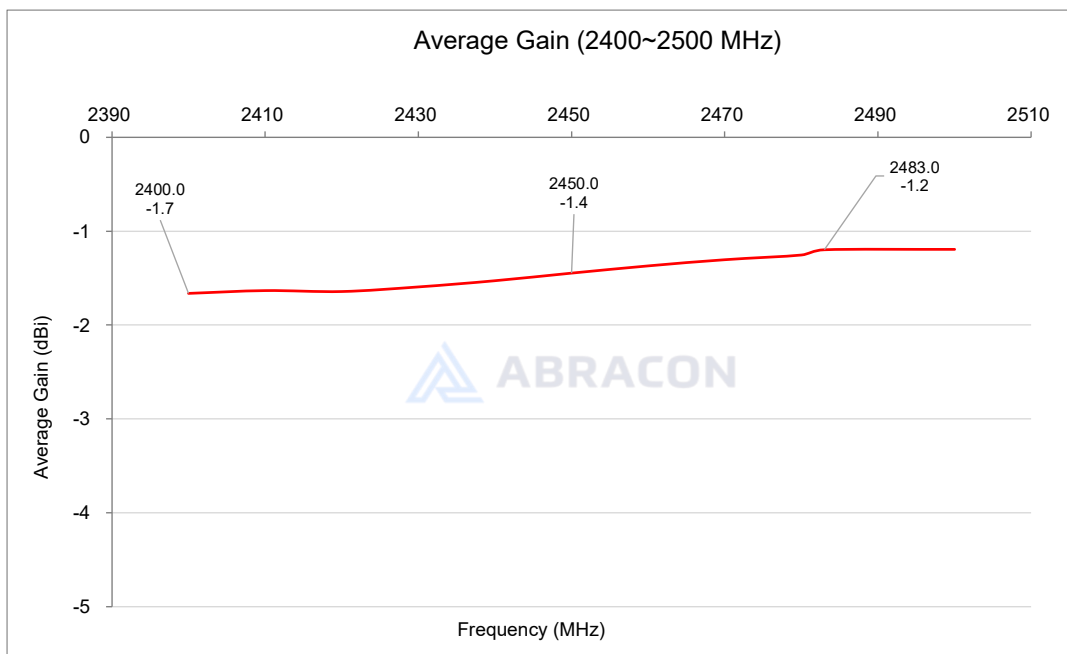
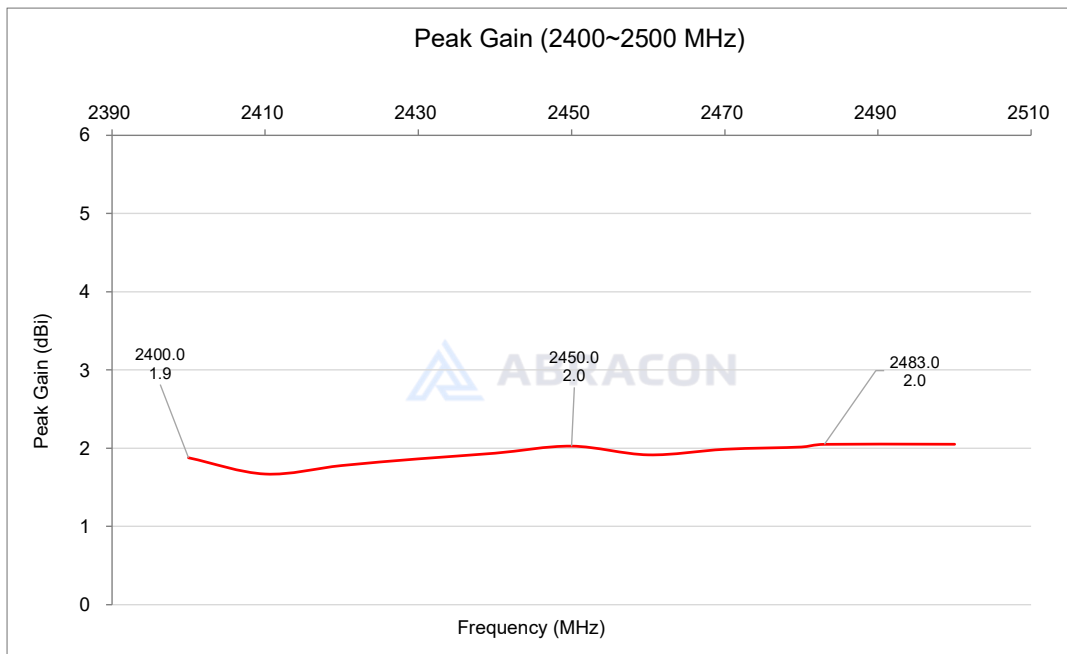


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Radiation Characteristics – Peak Gain & Average Gain



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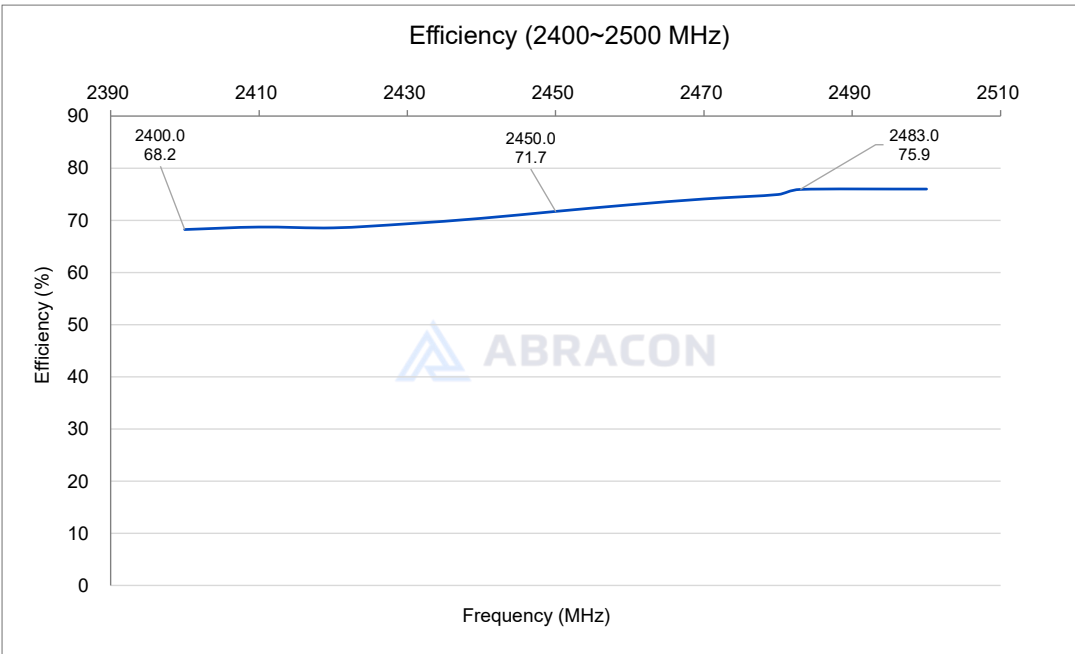


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Radiation Characteristics – Total Efficiency (%)



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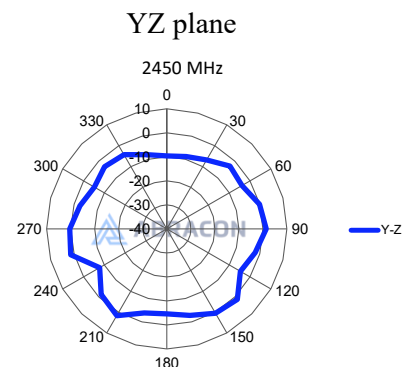
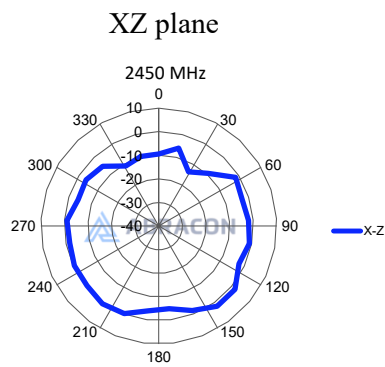
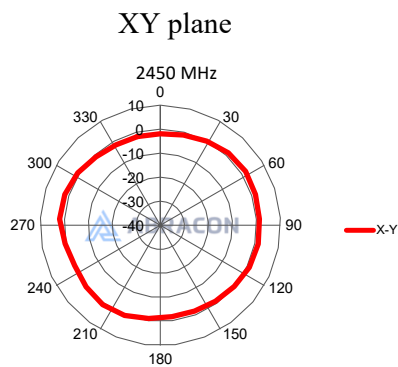
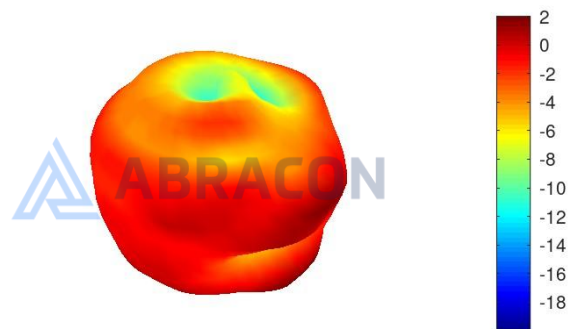
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Radiation Characteristics –3D & 2D Pattern

2450MHz



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