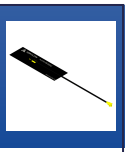
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2.4GHz Bluetooth & Wi-Fi FPC Antenna



AANI-FB-0032

Request Samples | Check Inventory

50 x 15 x 0.2 mm
RoHS Compliant
MSL Level = N/A

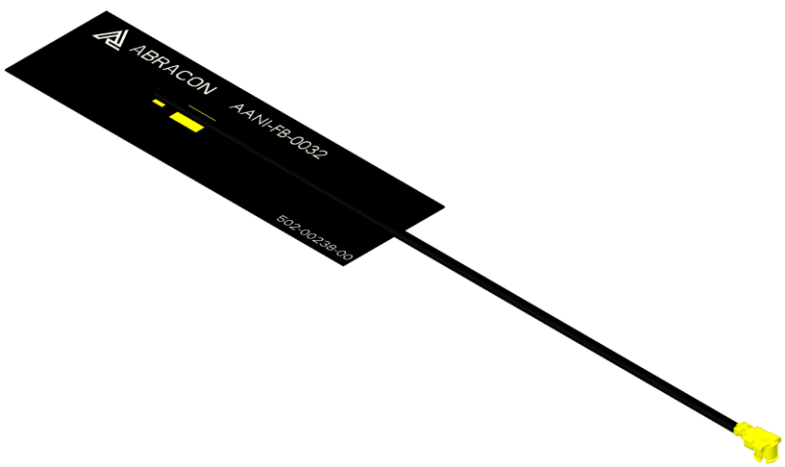
Features

- Frequency Range: 2400-2500 MHz
- Peak Gain: 2.8 dBi
- Efficiency: 73.7 %
- Ground Plane Independent
- Flexible to Fit Inside Plastic Enclosures
- Fully Customizable Cable Length and Connector Options
- RoHS Compliant

Applications

- Bluetooth®/ ZigBee® / Thread/ Matter/Wi-Fi®
- Bluetooth®/ Wi-Fi® Modules
- Hearables & Wearables
- Smart Home & Smart Building
- Smart Metering
- Intelligent Lighting

Product Image



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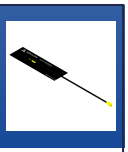
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RoHS Compliant
MSL Level = N/A

Electrical Specification

Parameter	Specification	Unit
Operating Frequency	2400 – 2500	MHz
VSWR	2.0	:1
Peak Gain	2.8	dBi
Maximum Efficiency	73.7	%
Average Efficiency	72.1	%
Impedance	50	Ω
Polarization	Linear	-
Radiation Pattern (Azimuth)	Omni-directional	-
Maximum Input Power	5	W

Mechanical Specification

Parameter	Specification
Antenna Dimensions	50 x 15 x 0.2 mm
Antenna Type	Flexible PCB
Mounting Type	Adhesive Mount
RF Connector (1)	u.FL/IPEX-1/MHF1
RF Cable Type (1)	Ø1.13 mm
Cable Length (1)	150 mm

(1)**:** Fully customizable RF Cable & Connector

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
RoHS Complaint	Yes

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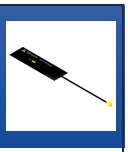
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RoHS Compliant
MSL Level = N/A

Ordering Information

Part Number	Description	Connector Option
AANI-FB-0032-1	2.4GHz Bluetooth & Wi-Fi FPC Antenna with IPEX-1 connector and 150 mm cable length	u.FL/IPEX-1/MHF1
AANI-FB-0032-2	2.4GHz Bluetooth & Wi-Fi FPC Antenna with IPEX-1 connector and 100 mm cable length	u.FL/IPEX-1/MHF1
AANI-FB-0032-3	2.4GHz Bluetooth & Wi-Fi FPC Antenna with IPEX-1 connector and 200 mm cable length	u.FL/IPEX-1/MHF1

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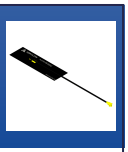
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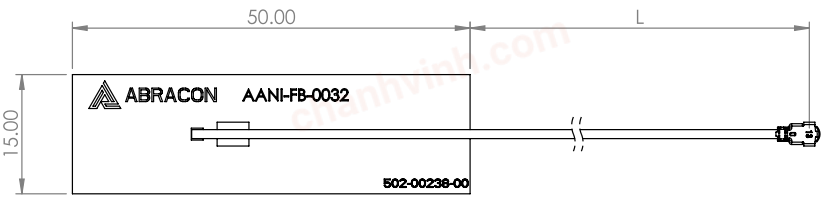


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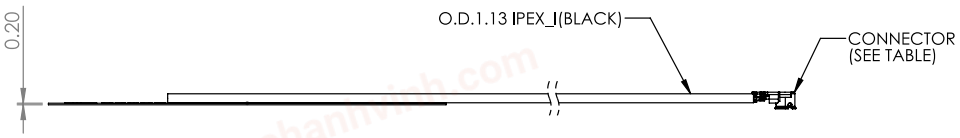
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50 x 15 x 0.2 mm
RoHS Compliant
MSL Level = N/A

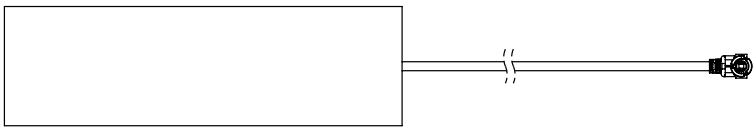
Product Dimensions



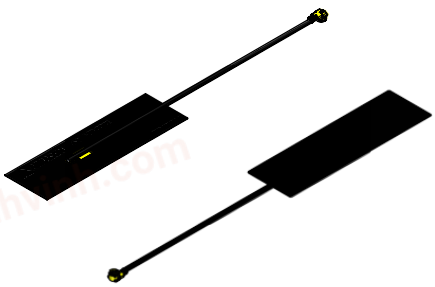
TOP VIEW



FRONT VIEW



BOTTOM VIEW



PART NUMBER	CABLE LENGTH (L)	CONNECTOR
AANI-FB-0032-1	150	u.FL/IPEX-1/MHF1
AANI-FB-0032-2	100	u.FL/IPEX-1/MHF1
AANI-FB-0032-3	200	u.FL/IPEX-1/MHF1

Unit : mm

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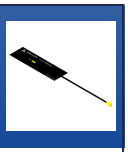
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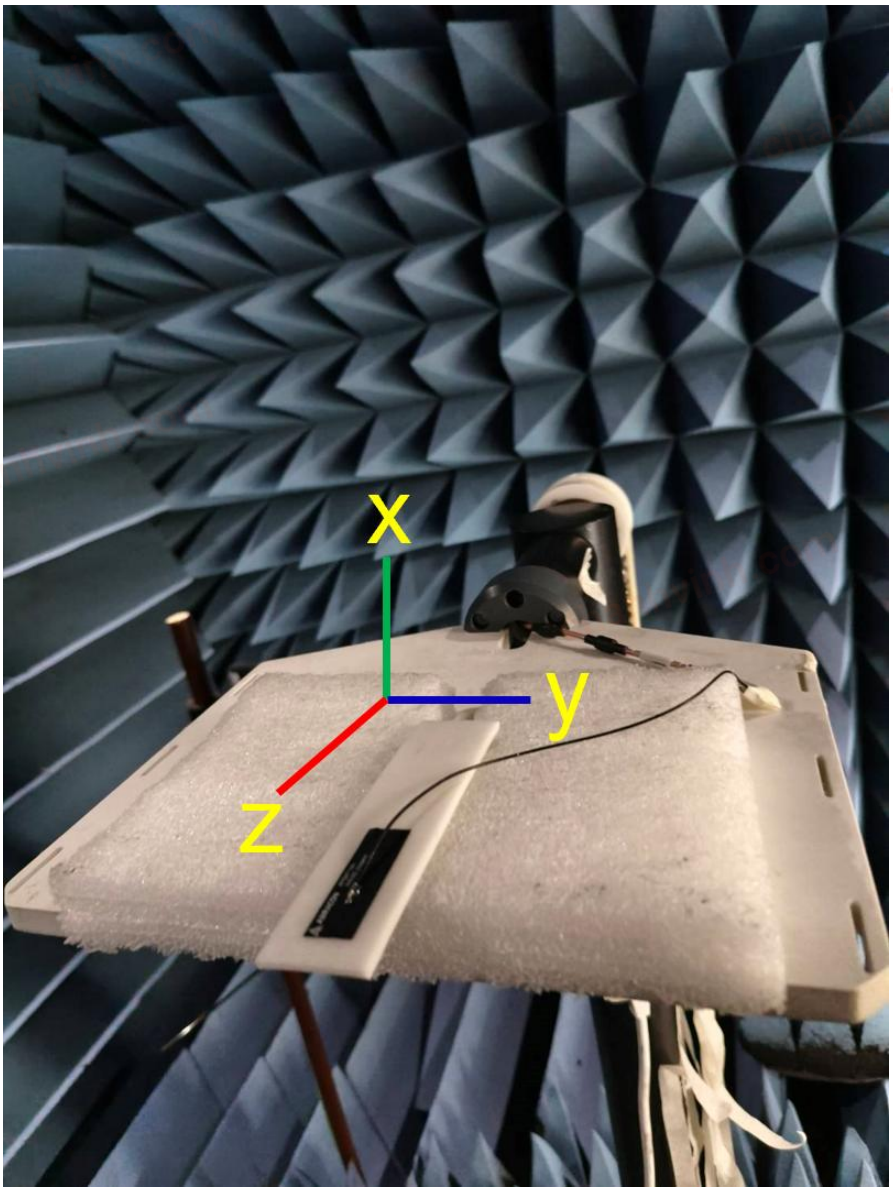


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50 x 15 x 0.2 mm
RoHS Compliant
MSL Level = N/A

Measurement Setup photo



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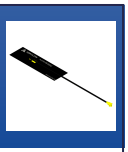
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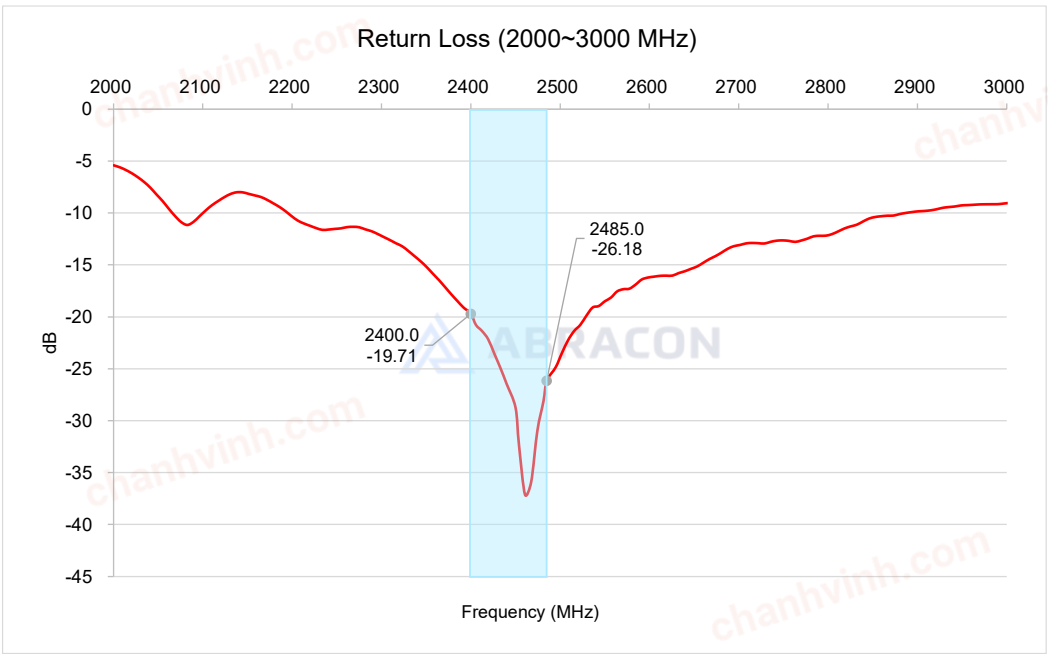


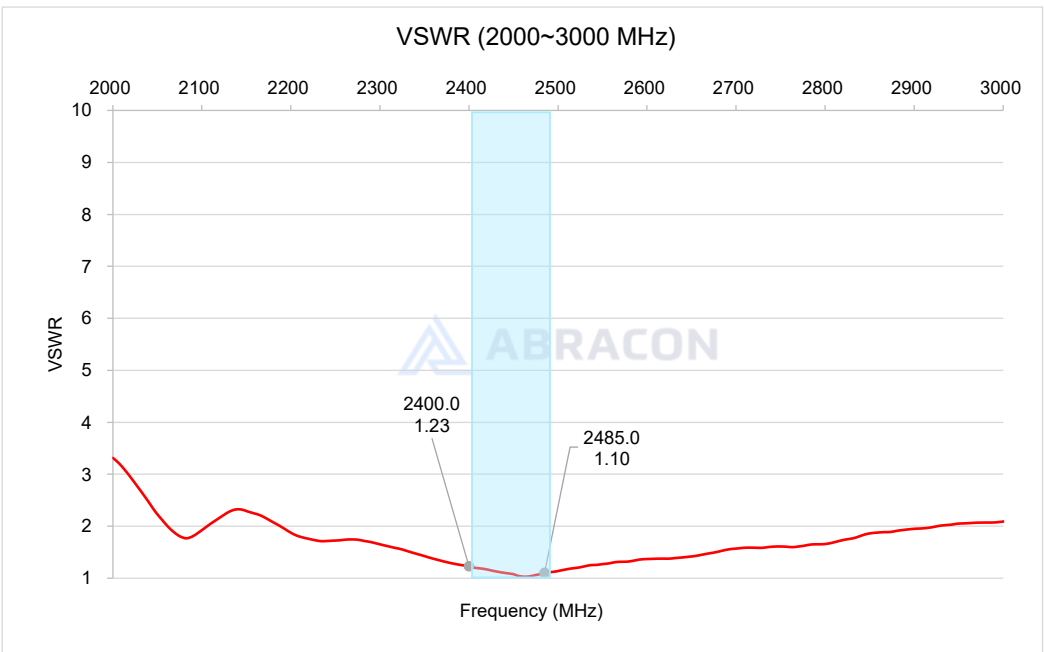
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50 x 15 x 0.2 mm
RoHS Compliant
MSL Level = N/A

Reflection Characteristics – Return Loss & VSWR





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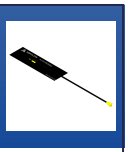
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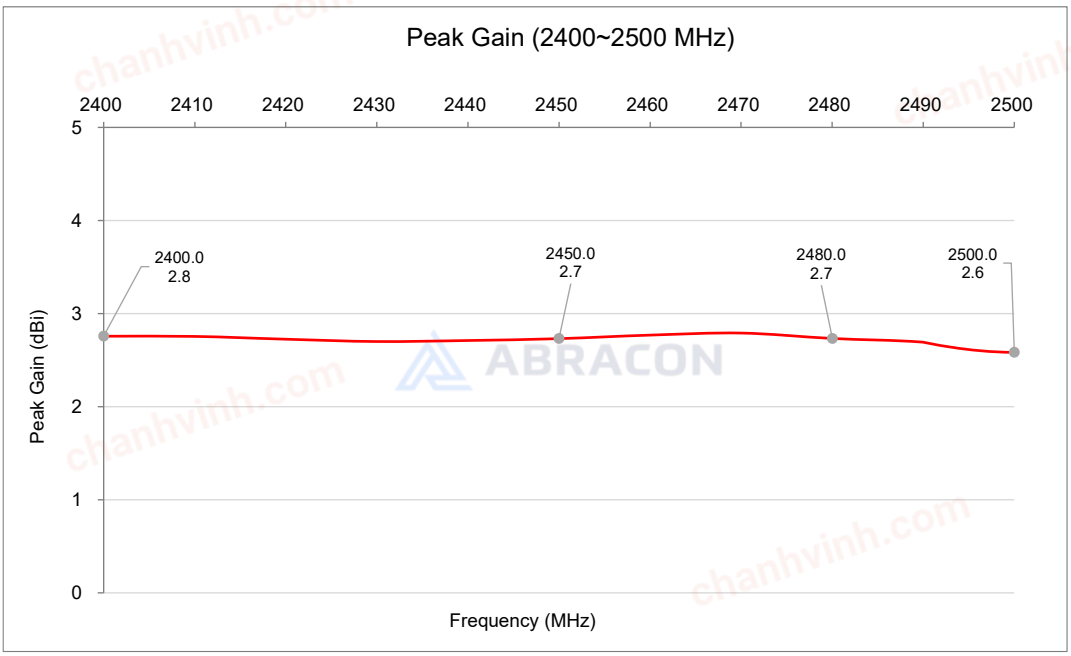


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50 x 15 x 0.2 mm
RoHS Compliant
MSL Level = N/A

Radiation Characteristics – Peak Gain



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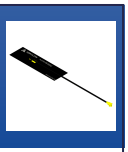
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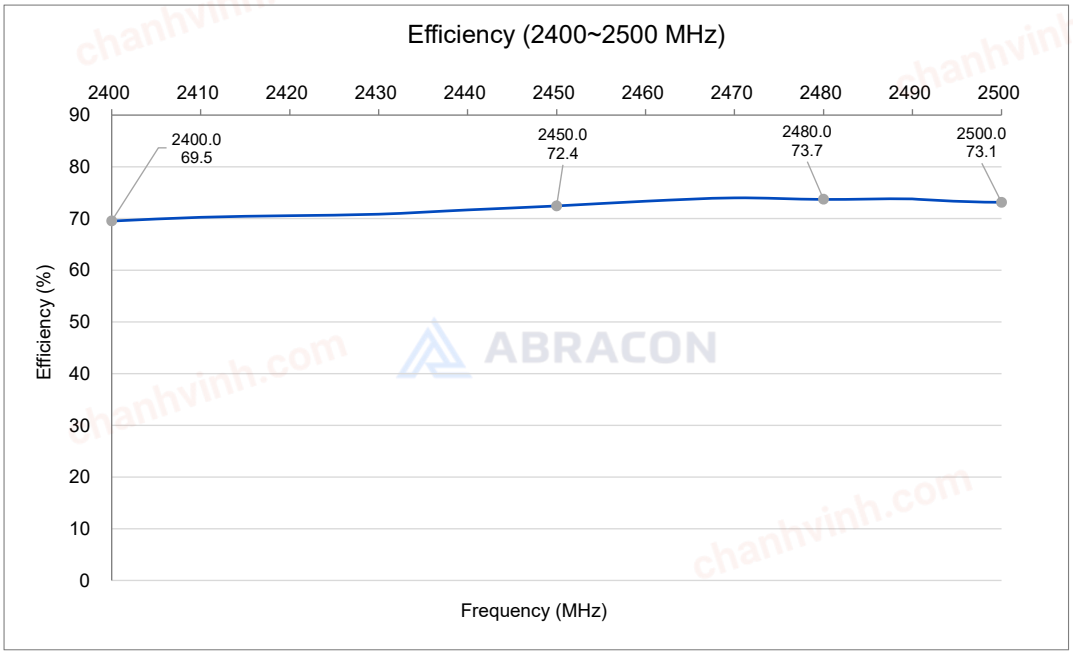


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50 x 15 x 0.2 mm
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Radiation Characteristics – Total Efficiency (%)



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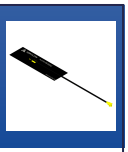
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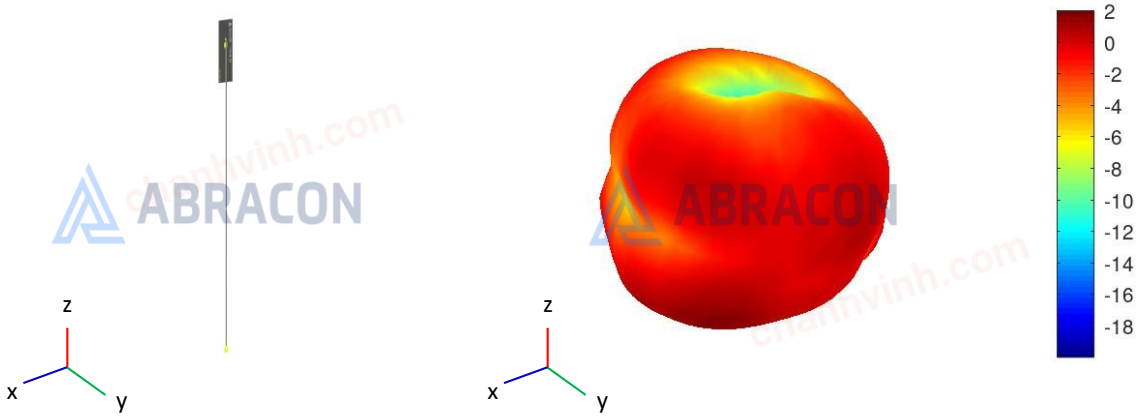
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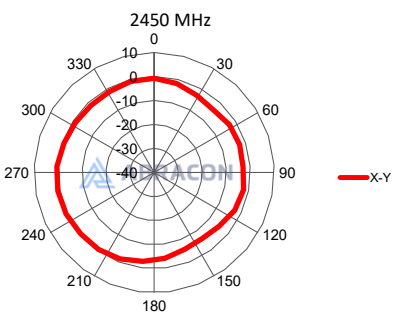
50 x 15 x 0.2 mm
RoHS Compliant
MSL Level = N/A

Radiation Characteristics – 3D & 2D pattern

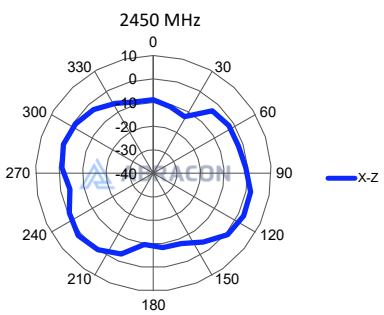
2450MHz



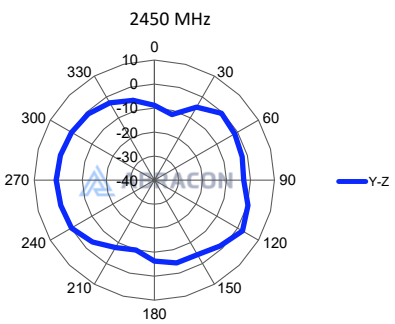
XY plane



XZ plane



YZ plane



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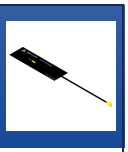
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RoHS Compliant
MSL Level = N/A

Packaging

Number of Antenna/ bags: 50 pcs

Total Pcs / package: 1000 pcs

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