

LPWA: 868 MHz Board Antenna



ABR3407I8

Request Samples



Check Inventory



34 x 7 x 0.8 mm

RoHS/RoHS II Compliant

MSL Level = 1

Features

- Low Profile PCB
- Compact Design
- Peak Gain of 1.28 dBi
- Linear Polarization
- Adhesive Mount
- Antenna with Tinned termination

Applications

- LPWA/LoRA/SigFox/ISM Applications
- Remote Technology / Monitoring
- Network Devices
- Consumer Tracking
- Smart Home

Product Image



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Electrical Specification

Parameter	Specification			Unit
	Min	Typ	Max	
Operating Frequency	868		870	MHz
Return loss			-21.66	dB
Peak gain		1.28		dBi
Impedance		50		Ω
Polarization	Linear			

Mechanical Specification

Parameter	Specification
Antenna Dimensions	34 x 7 x 0.8 mm
Antenna Type	PCB
Mounting Type	Adhesive
RF Connector	IPEX-1(F/M) / IPEX-4(F/M) / SMA(F/M) / RP-SMA(F/M) / MMCX(F/M) / FAKRA-D(F)
RF Cable Type	$\varnothing$ 1.13 mm
Cable Length	50 / 100 / 150 mm

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	Up to 95%
ROHS Complaint	Yes
PB Free	No
MSL Level	1

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Ordering Information

Part Number	Description	Connector Option
ABR3407I8	LPWA: 868 MHz Board Antenna with Tinned Termination and 100mm cable	Without connector
ABR3407I8-0100S	LPWA: 868 MHz Board Antenna with IPEX-1(F) connector and 100mm cable	IPEX-1 (F)
ABR3407I8-0050A	LPWA: 868 MHz Board Antenna with IPEX-4(F) connector and 50mm cable	IPEX-4 (F)
ABR3407I8-0100B	LPWA: 868 MHz Board Antenna with MMCX(M) connector and 100mm cable	MMCX(M)
ABR3407I8-0100C	LPWA: 868 MHz Board Antenna with MMCX(F) connector and 100mm cable	MMCX(F)
ABR3407I8-0100D	LPWA: 868 MHz Board Antenna with SMA (F) connector and 100mm cable	SMA (F)
ABR3407I8-0100E	LPWA: 868 MHz Board Antenna with SMA (M) connector and 100mm cable	SMA (M)
ABR3407I8-0100F	LPWA: 868 MHz Board Antenna with RP-SMA (F) connector and 100mm cable	RP-SMA (F)
ABR3407I8-0100G	LPWA: 868 MHz Board Antenna with RP-SMA (M) connector and 100mm cable	RP-SMA (M)
ABR3407I8-0150H	LPWA: 868 MHz Board Antenna with FAKRA-D (F) connector and 150mm cable	FAKRA-D (F)
ABR3407I8-0150L	LPWA: 868 MHz Board Antenna with FAKRA-D (F) connector and 150mm cable without foam	FAKRA-D (F)

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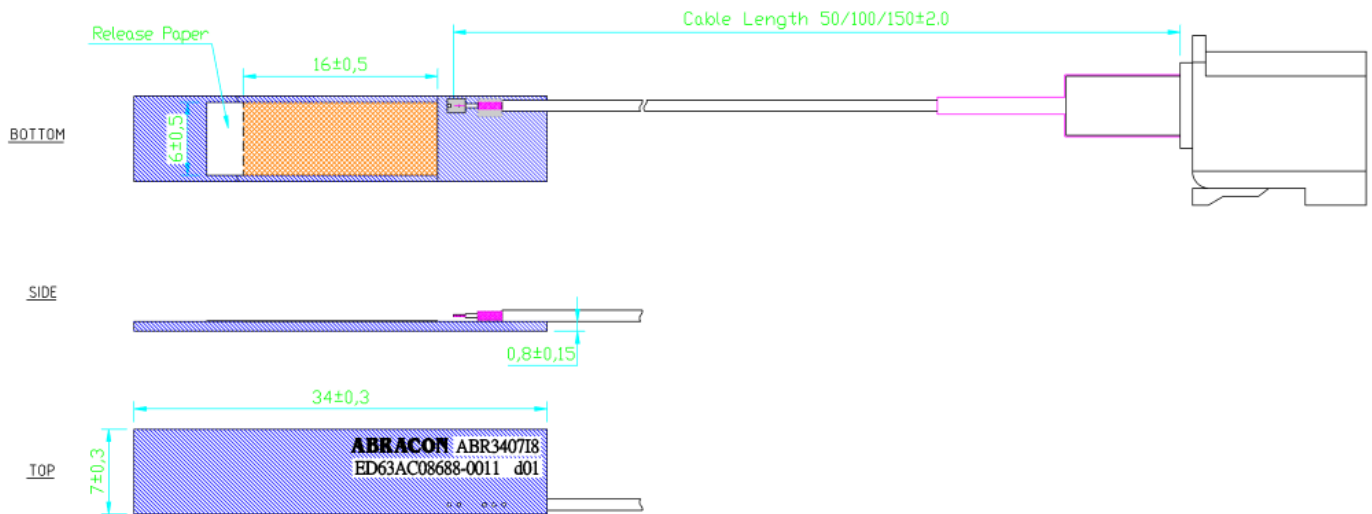


34 x 7 x 0.8 mm

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Product Dimensions



- Cover Area
- Plating Area
- Adhesive Area

Material:

1.PCB:

FR-4 Thickness=0.8mm

2.Double Sided Adhesive:

3M 9472 Thickness=0.05mm

3.Connector: IPEX-1(F/M) / IPEX-4(F/M) / SMA(F/M) / RP-SMA(F/M) / MMCX(F/M) / FAKRA-D (F)

Color:Bordeaux

Unit : mm

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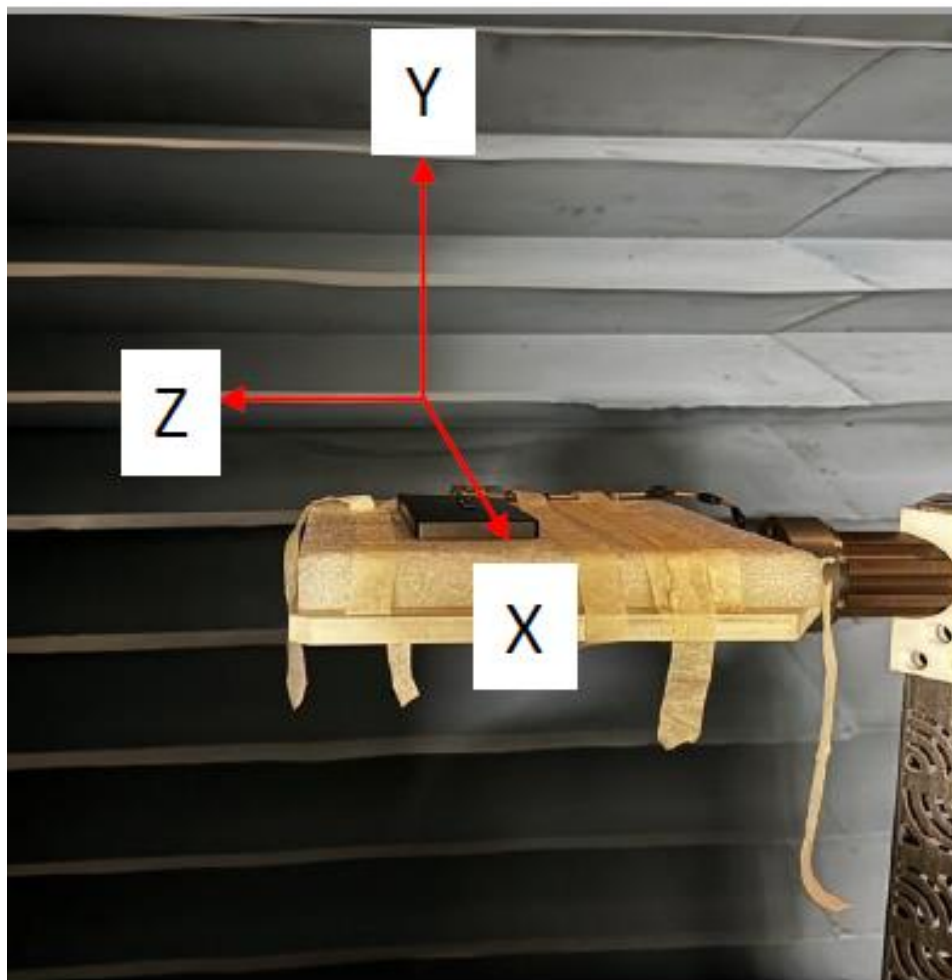
Check Inventory

34 x 7 x 0.8 mm

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Measurement Setup



LPWA: 868 MHz Board Antenna



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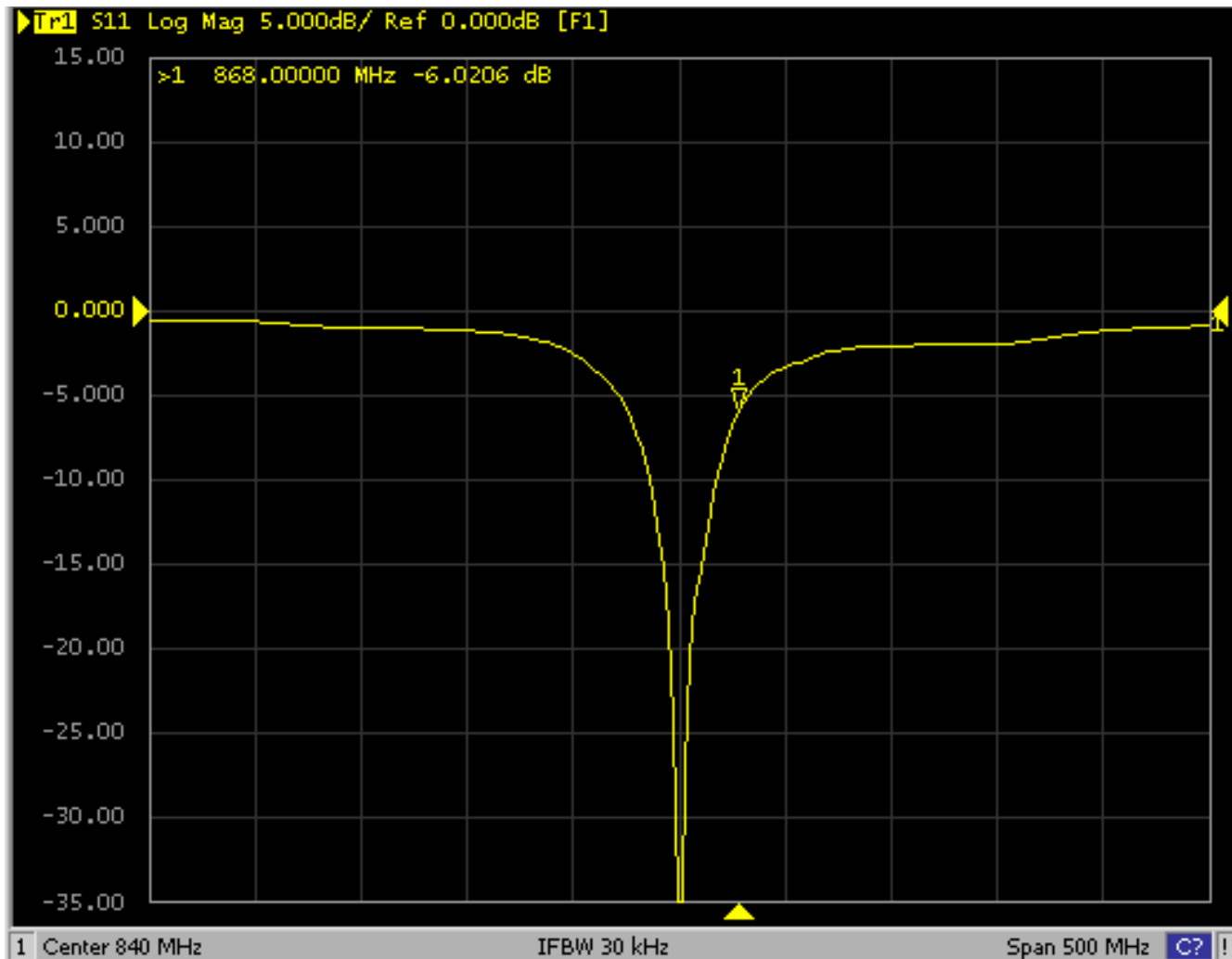


34 x 7 x 0.8 mm

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Reflection Characteristics – Return Loss



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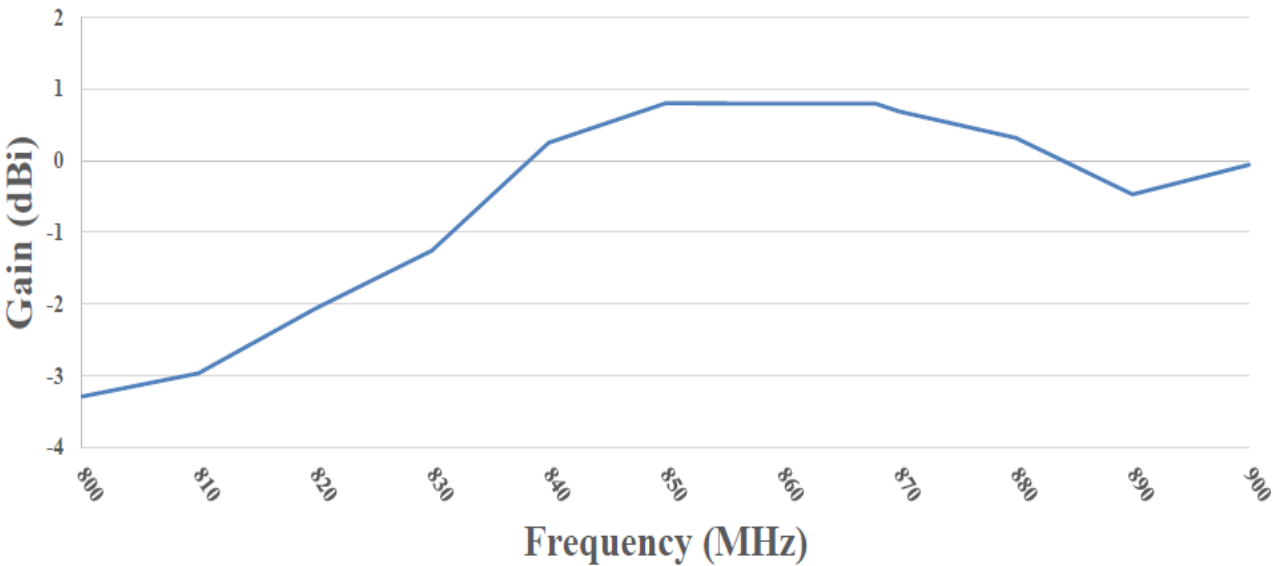


34 x 7 x 0.8 mm

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Radiation Characteristics – Peak Gain



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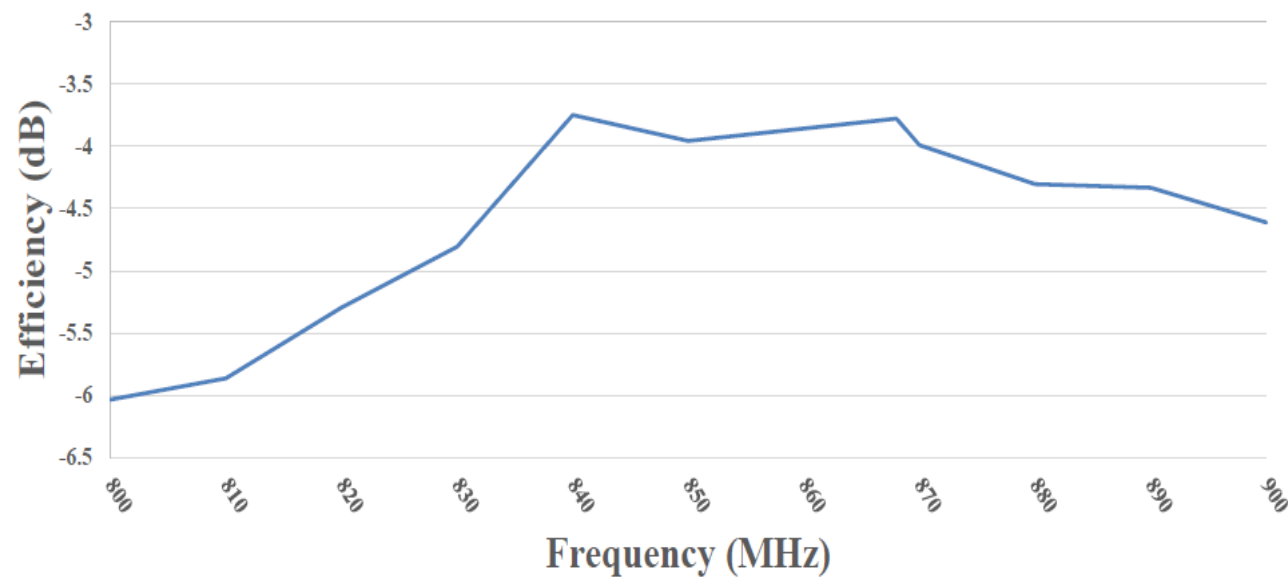
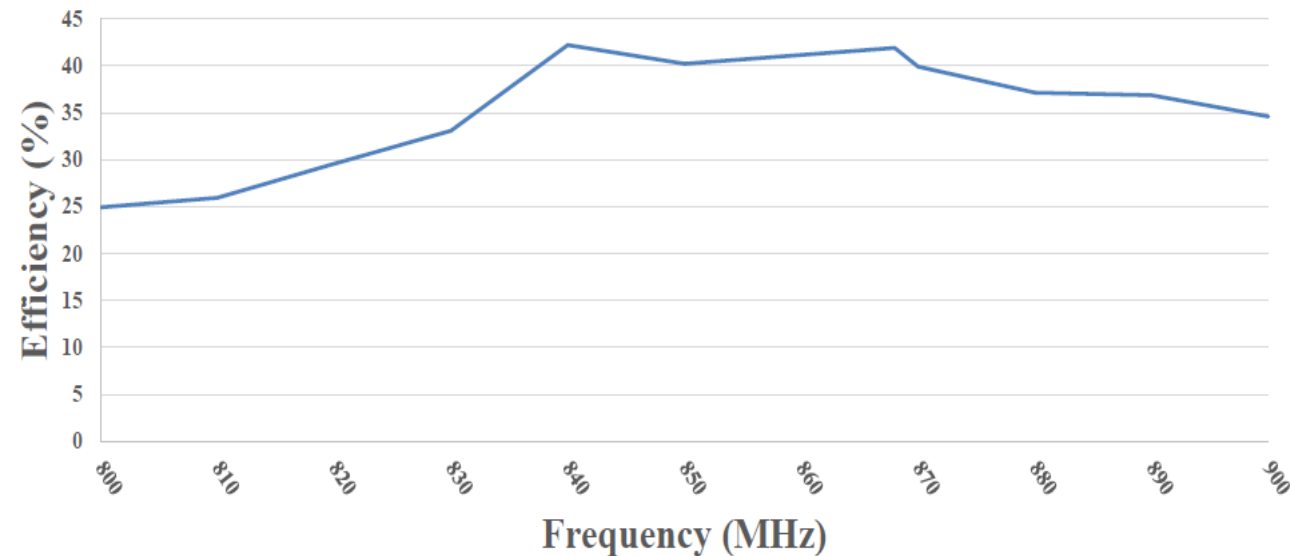


34 x 7 x 0.8 mm

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Radiation Characteristics – Total Efficiency



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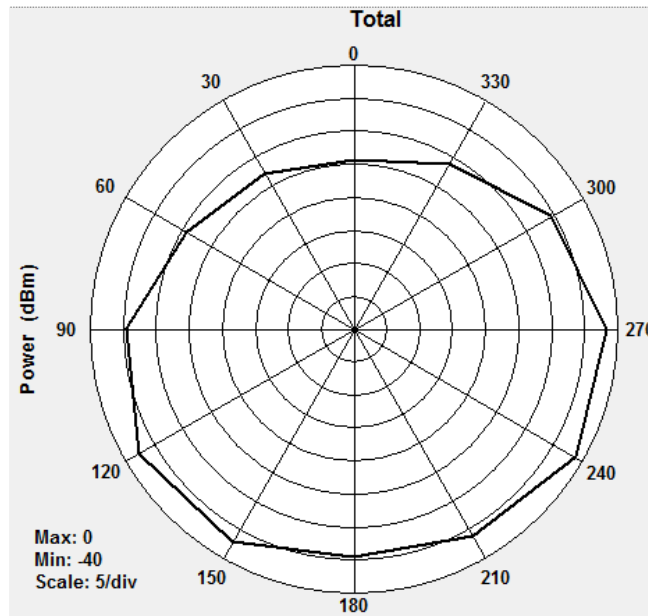
34 x 7 x 0.8 mm

RoHS/RoHS II Compliant

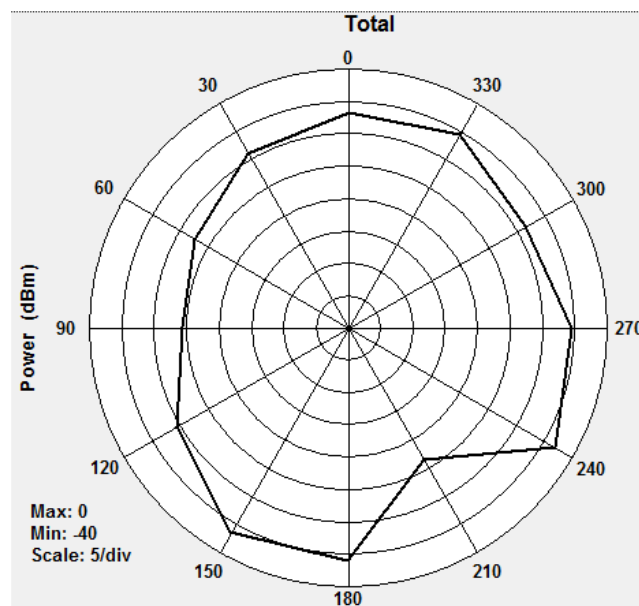
MSL Level = 1

Radiation Characteristics –3D & 2D Pattern

XY Plane



XZ Plane



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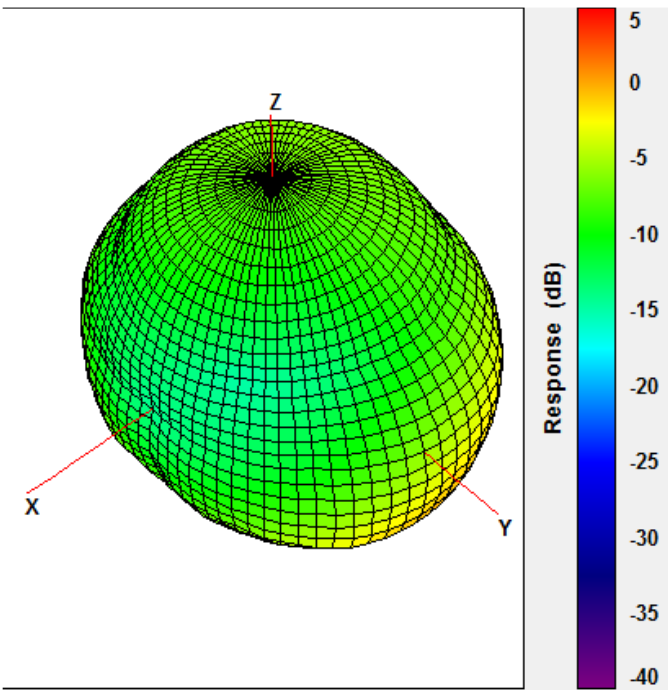
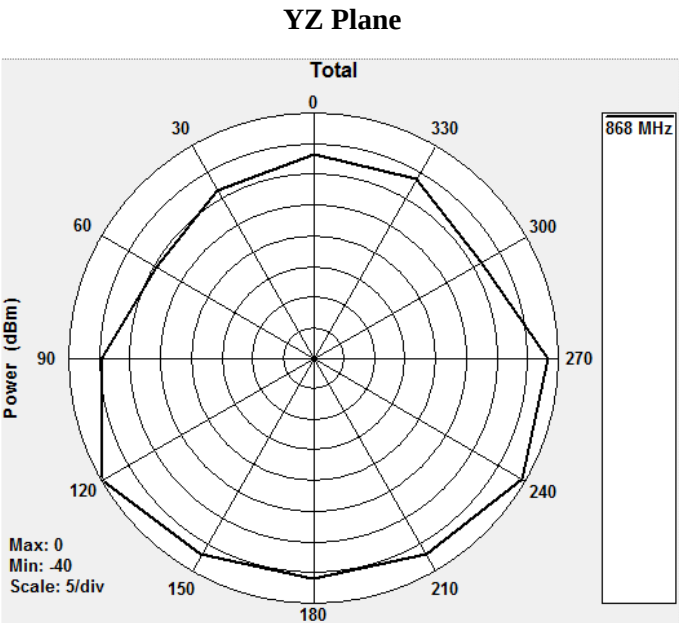
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Packaging

Number of Antenna/ Carton: 1600 pcs

Dimension of the Carton: 330 x 280 x 254 mm

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ABRACON:](#)

[ABR3407I8-0100S](#)