#### ABR3407I9

Request Samples (>)



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34 x 7 x 0.8 mm RoHS/RoHS II Compliant MSL Level = 1

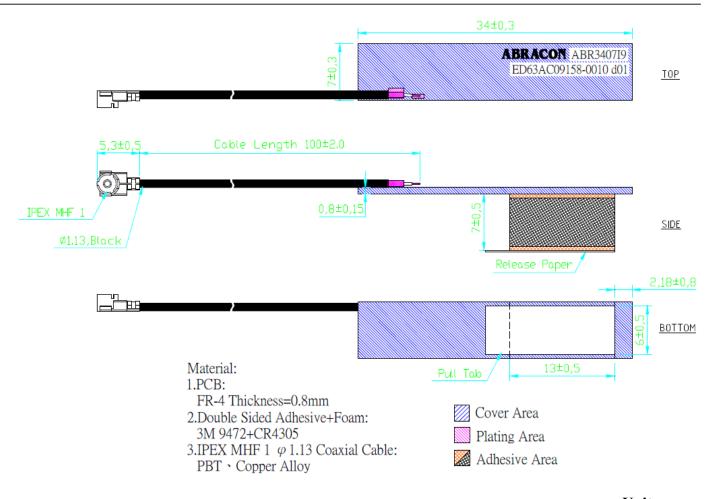
#### **Features**

- Low Profile PCB Antenna
- Compact Design
- Peak Gain of 1.84 dBi
- Linear Polarization
- Adhesive Mount
- Customizable RF cable ad connector options

### **Applications**

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

### **Product Dimensions**







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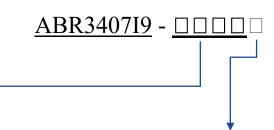


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#### Part Number Builder



Cable length in 'mm'									
Cable length supported : Ø1.13 mm (50 mm to 500 mm)									
Code Description									
0100	100 mm								
(Standard)	100 11111								
Other Examples:									
0050	50 mm								
0200 200 mm									

Cable Type & Connector Type							
Code	Cable Type	Connector Type					
S (Standard)		IPEX-1 (F)					
A		IPEX-4 (F)					
В		MMCX (F)					
C		MMCX (M)					
D		MCX (F)					
E	Q1 12	MCX (M)					
F	Ø1.13 mm	SMA (F)					
G		SMA (M)					
H		RP-SMA (F)					
I		RP-SMA (M)					
J		SMB (F)					
K		SMB (M)					
L		FAKRA-D (F)					

#### **Example Configurations:**

Part Number	Cable length	Cable Type / Connector Type					
ABR3407I9- <u>0100</u> S	0100 mm	Ø1.13 mm with IPEX-1 (F) (Standard)					
ABR3407I9- <u>0050</u> A	0050 mm	Ø1.13 mm with IPEX-4 (F)					

#### Note:

- For the standard part number (ABR3407I9-0100S), please refer to the packaging at the end of the document.
- For custom configurations (ABR3407I9- \( \square\) \( \square\) MOQs, pricing and packaging changes may be applicable.



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### **Electrical Specification**

Parameter		Specification	Unit	
1 al ametei	Min	Тур	Max	Unit
Operating Frequency	902		928	MHz
Return Loss			-12	dB
Peak gain			1.84	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 MHF 1
RF Cable Type	Ø1.13 mm
Cable Length	110 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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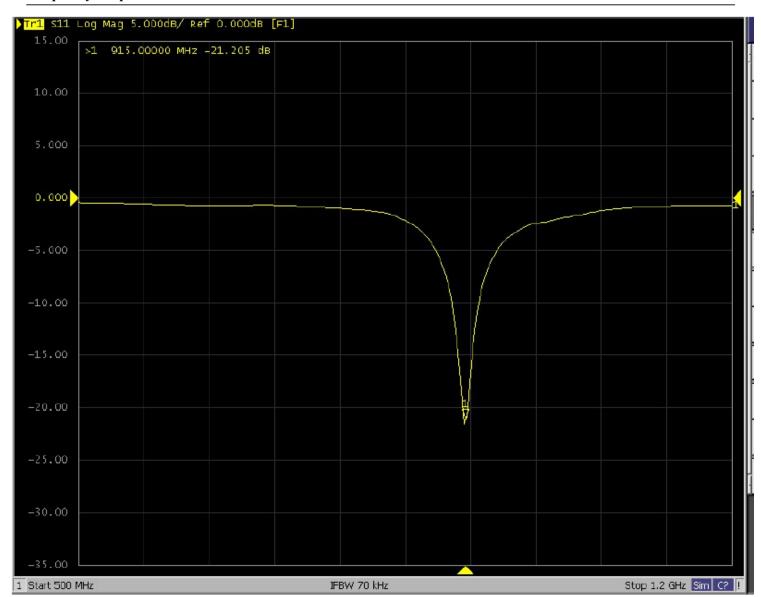


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34 x 7 x 0.8 mm **RoHS/RoHS II Compliant** MSL Level = 1

### **Frequency Response Chart**





### **ABR3407I9**

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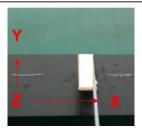


Check Inventory (>)

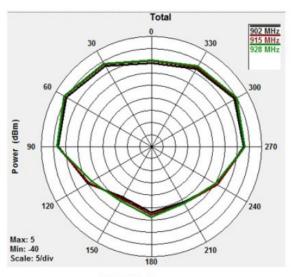


34 x 7 x 0.8 mm **RoHS/RoHS II Compliant** MSL Level = 1

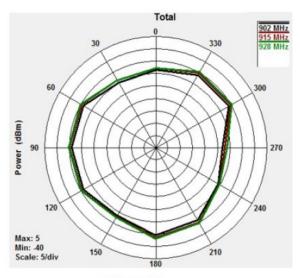
### **Radiation Characteristics**



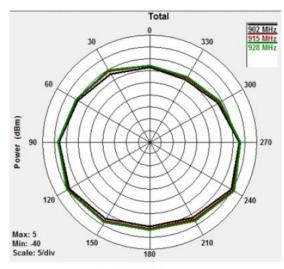
### 2D Patterns



XY-Plane



XZ-Plane



YZ-Plane



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### **ABR3407I9**

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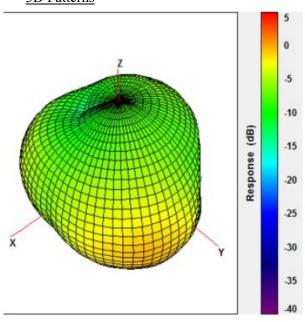


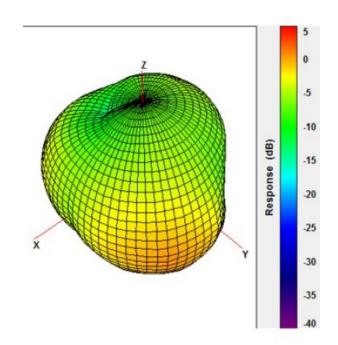
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34 x 7 x 0.8 mm RoHS/RoHS II Compliant MSL Level = 1

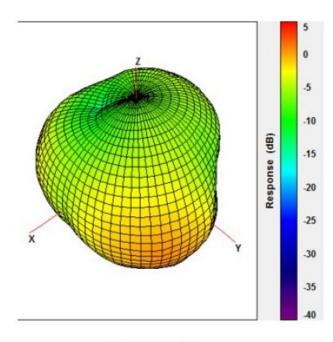






# 902MHz

915MHz



**928MHz** 



**ABR3407I9** 

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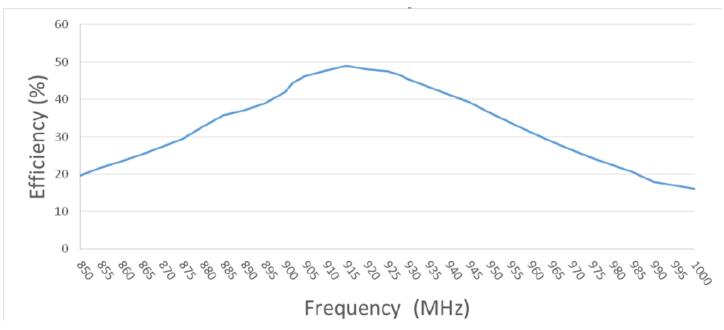
Check Inventory (>)



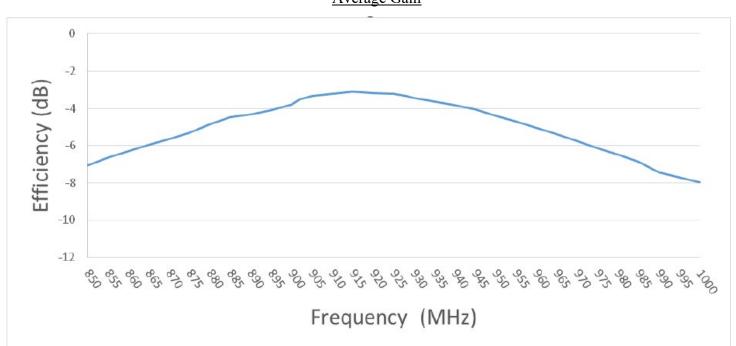
34 x 7 x 0.8 mm RoHS/RoHS II Compliant MSL Level = 1

### **Gain and Efficiency**





### Average Gain





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### ABR3407I9

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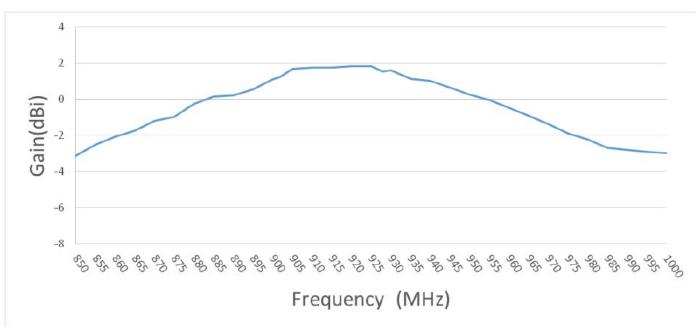


Check Inventory (>)



34 x 7 x 0.8 mm RoHS/RoHS II Compliant MSL Level = 1

### Peak Gain



Frequency (MHz)	850	860	870	880	890	900	910	920	930	940	950	960	969
Efficency (%)	19.69	23.46	27.28	32.67	36.98	41.96	47.96	48.06	45.44	41.43	36.46	31.18	26.54
Average Gain (dB)	-7.06	-6.3	-5.64	-4.86	-4.32	-3.77	-3.22	-3.18	-3.43	-3.83	-4.3	-5.06	-5.76
Peak Gain (dBi)	-3.13	-2.09	-1.2	-0.24	0.24	1.08	1.75	1.84	1.6	1.02	0.25	-0.48	-1.38

### **Packaging Information**

Number of Antenna/ Carton: 1600 pcs

Dimension of the Carton: 330 x 280 x 254 mm

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