

Engineering/Process Change Notice

ECN/PCN No.: R0335

For Manufacturer									
Product Description: LPWA: 915 MHZ BOARD ANTENNA	Abracon Part Number / Part Series: ABR340719		□ Documentation only□ ECN⋈ EOL	☐ Series ☐ Part Number					
Affected Revision: Rev B	New Revision:)L	Application:	☐ Safety ☑ Non-Safety					
Prior to Change:									
After Change: EOL									
Cause/Reason for Change: Standard product discontinuation									
	Chan	ge Plan							
Effective Date: 02/05/2025	Additional Remarks								
Change Declaration:									
Issued Date: 02/05/2025	Issued By: Urmila Ma	adhipatla	Issued Department: Engineering						
Approval: Saravanan Subramanian Engineering Manager	Approval: Reuben Quintanilla Quality Director		Approval: Ying Huang Purchasing Director						
	For Abrac	on EOL only							
Last Time Buy (if applicable): Alternate Part Number / Part Series:									
Additional Approval:	Additional Approval:		Additional Approval:						
	Customer Appro	val (If Applicable)							
Qualification Status: Note: It is considered approved if there is n	• •	□ Not accepted ustomer 1 month after	r ECN/PCN is released.						
Customer Part Number:		Customer Project:							
Company Name:	Company Representative:		Representative Signature:						
Customer Remarks:									

Form #7020C | EOL | Effective: 02/05/2025 |













ABR3407I9

Request Samples (>)



Check Inventory (>)



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 34±0,3 ABRACON ABR340719 ED63AC09158-0010 d01 TOP Length 100±2.0 5,3±0,5 0,8±0,15 IPEX MHF 1 유 SIDE Ø1.13,Black Release Paper 2,18±0,8 BOTTOM Material: 13±0,5 Pull Tab 1.PCB: FR-4 Thickness=0.8mm Cover Area 2.Double Sided Adhesive+Foam: 3M 9472+CR4305 Plating Area 3.IPEX MHF 1 φ 1.13 Coaxial Cable: Adhesive Area PBT · Copper Alloy Unit: mm



5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com

REVISED: 08-09-21

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ABR340719

Request Samples (>)

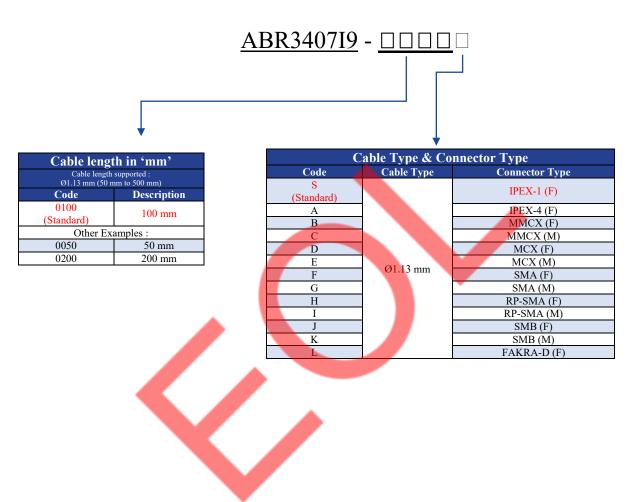


Check Inventory (>)



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

Part Number Builder



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- $\Box\Box\Box\Box\Box$), MOQs, pricing and packaging changes may be applicable.



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Electrical Specification

Parameter		Specification	Unit	
	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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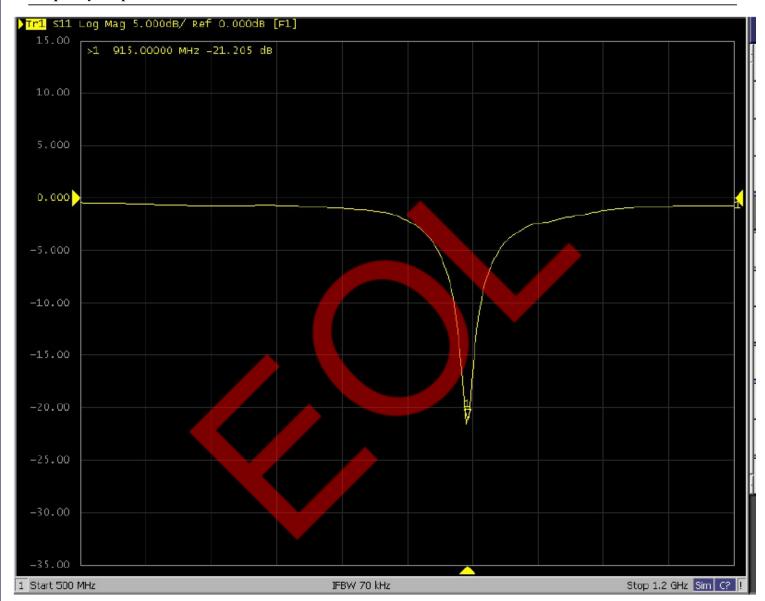


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34 x 7 x 0.8 mm **RoHS/RoHS II Compliant** MSL Level = 1

Frequency Response Chart





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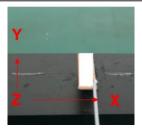


Check Inventory (>)

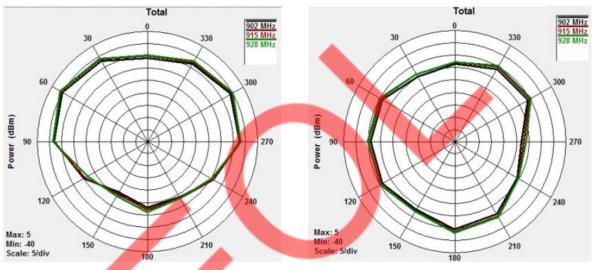


34 x 7 x 0.8 mm **RoHS/RoHS II Compliant** MSL Level = 1

Radiation Characteristics

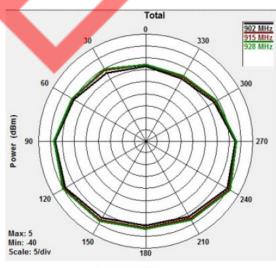


2D Patterns



XY-Plane

XZ-Plane



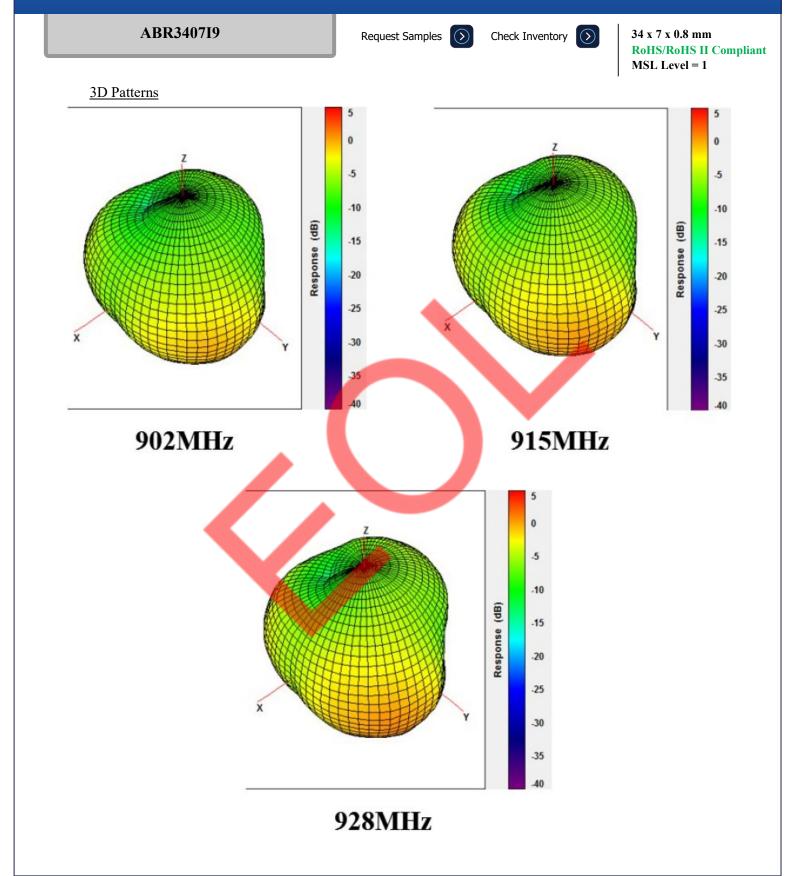
YZ-Plane



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Gain and Efficiency





Average Gain





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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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