

RFID Patch Antenna

APAES923R4560C16-T

RoHS/RoHS II compliant



45.0 x 45.0 x 6.0mm

MSL level: Not Applicable

FEATURES:

- High Gain
- Pin type
- Customization Available
- RoHS Compliance

TYPICAL APPLICATIONS:

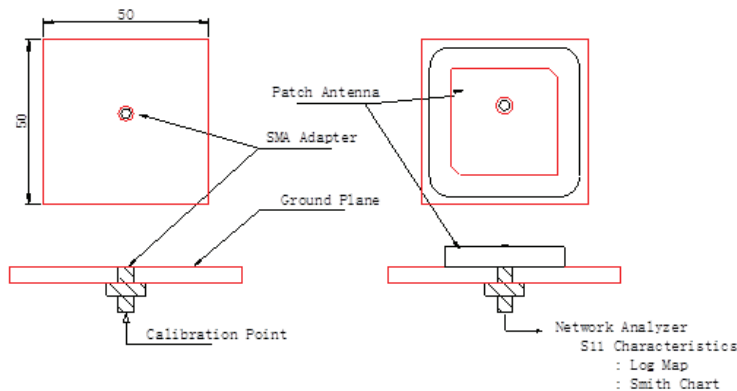
RFID systems for Logistic & Inventory Management of Retail, Pharmaceutical, Automotive Industries; Industrial automation, Contactless smart cards.

STANDARD SPECIFICATIONS:

Parameters	Min.	Typ.	Max.	Units	Note
Receiving Frequency Range	915		930	MHz	
Center Frequency ^(*)	923			MHz	(On 50*50mm GND Plane)
Bandwidth	7			MHz	(Return loss \leq 10dB)
Gain		2.5		dBic	(Peak gain on (On 70*70mm GND Plane facing Zenith.)
Axial Ratio			2.5	dB	
VSWR @ Center Frequency			1.5		
Polarization Model	RHCP				(Right Hand Circular Polarization)
Impedance	50			Ω	
Frequency Temperature Coefficient	-10		10	ppm/ $^{\circ}$ C	

(*) Application environment, including size of the ground plane, proximity to adjacent components, etc., will affect stated performance. Fine tuning might be required when installed on end-customer's PCB. Abracon offers Antenna Optimization Service, please contact Abracon.

TEST CONDITIONS & TEST SETUP:



STRUCTURE AND MATERIAL

Description	Material
Antenna Substrate	Dielectric Ceramics
Pin	Copper and tinplated
Electrode	Ag Plated
Ground Plane	Ag Plated
Adhesive Type	NITTO 5000NS

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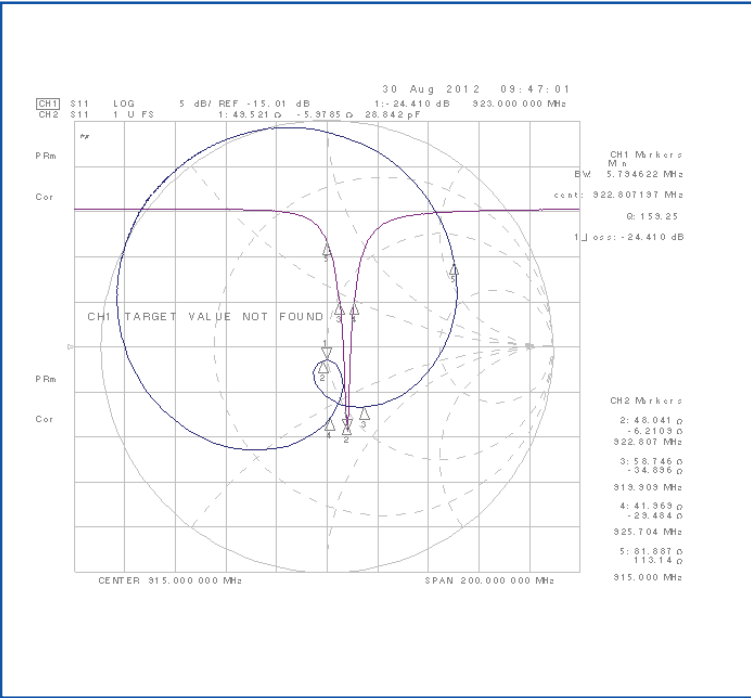
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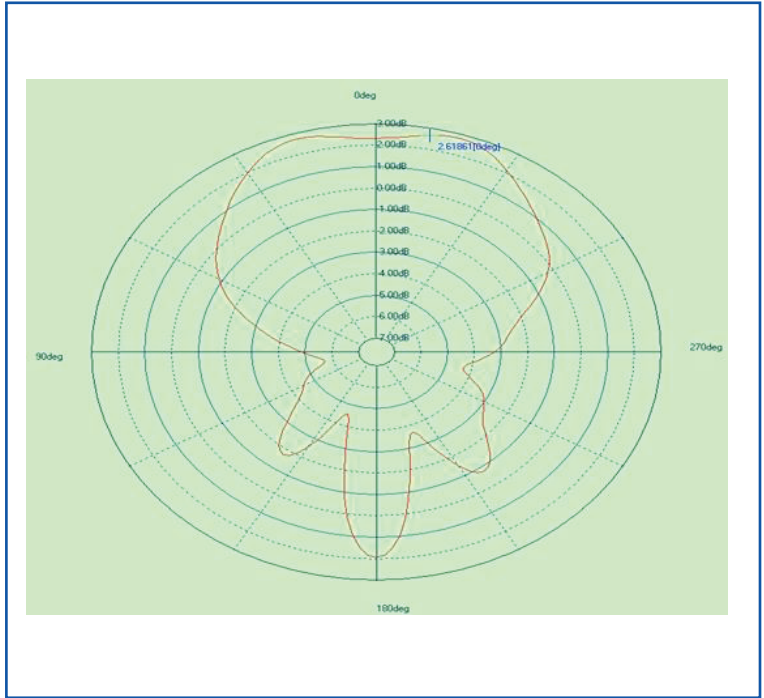


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SMITH CHART



RADIATION PATTERN



OUTLINE DIMENSION:

