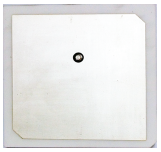
RFID Patch Antenna

APAES915R80C16-T

RoHS/RoHS II compliant



80.0 x 80.0 x 6.0mm

MSL level: Not Applicable

FEATURES:

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

TYPICAL APPLICATIONS:

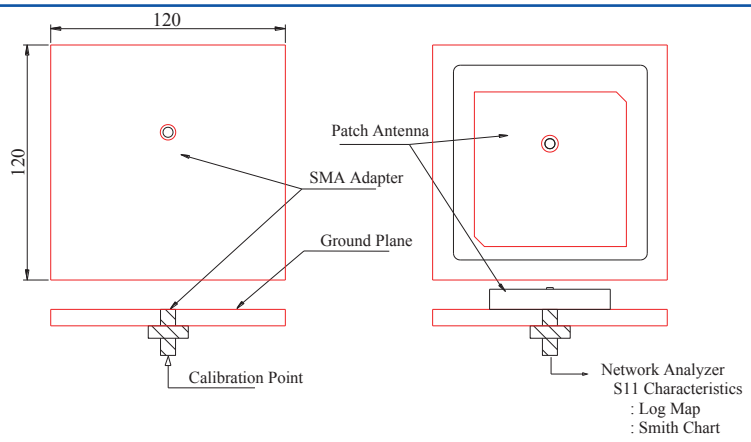
RFID systems for Logistic & Inventory Management of Retail, Pharmaceutical, Automotive Industries; Industrial automation, Contactless smart cards.

STANDARD SPECIFICATIONS:

Parameters	Min.	Typ.	Max.	Units	Note
Receiving Frequency Range	902.0		928.0	MHz	
Center Frequency (*)		915		MHz	(On a120*120mm Ground Plane)
Bandwidth	20			MHz	(Return loss ≤-10dB)
S11@ Center Frequency			-20	dB	
Gain		5.0		dBic	(Peak gain on 120*120mm Ground Plane facing Zenith.)
Axial Ratio			3	dB	
VSWR @ Center Frequency	1.3				
Polarization Model		RHCP			(Right Hand Circular Polarization)
Impedance		50		Ω	
Frequency Temperature Coefficient	-10		10	ppm/℃	

(*) 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

REVISED: 07/19/2021
Headquarters:
5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858

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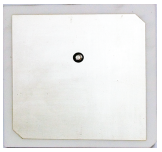
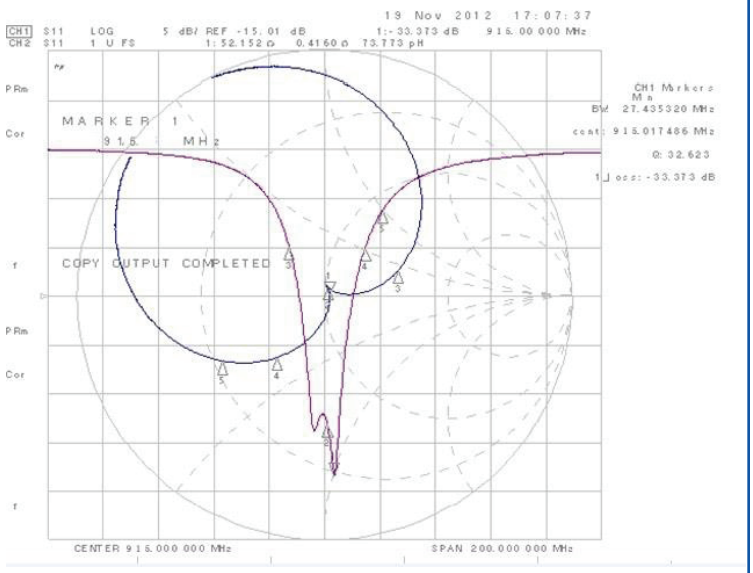
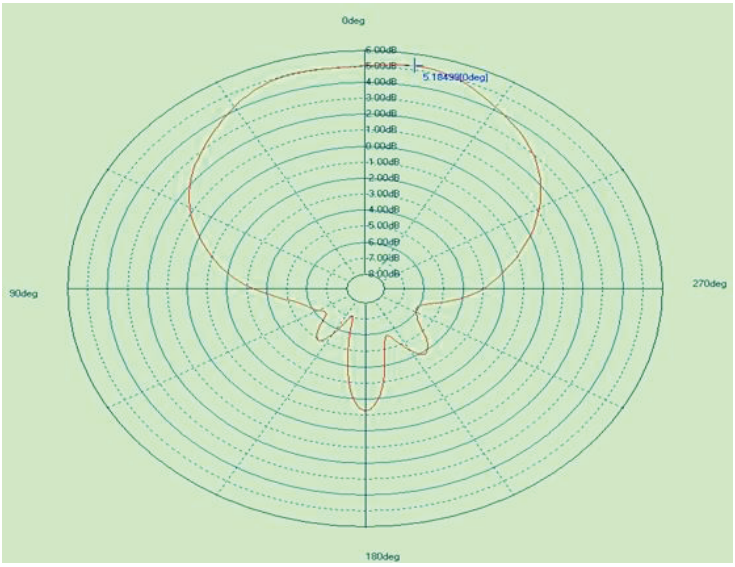


80.0 x 80.0 x 6.0mm

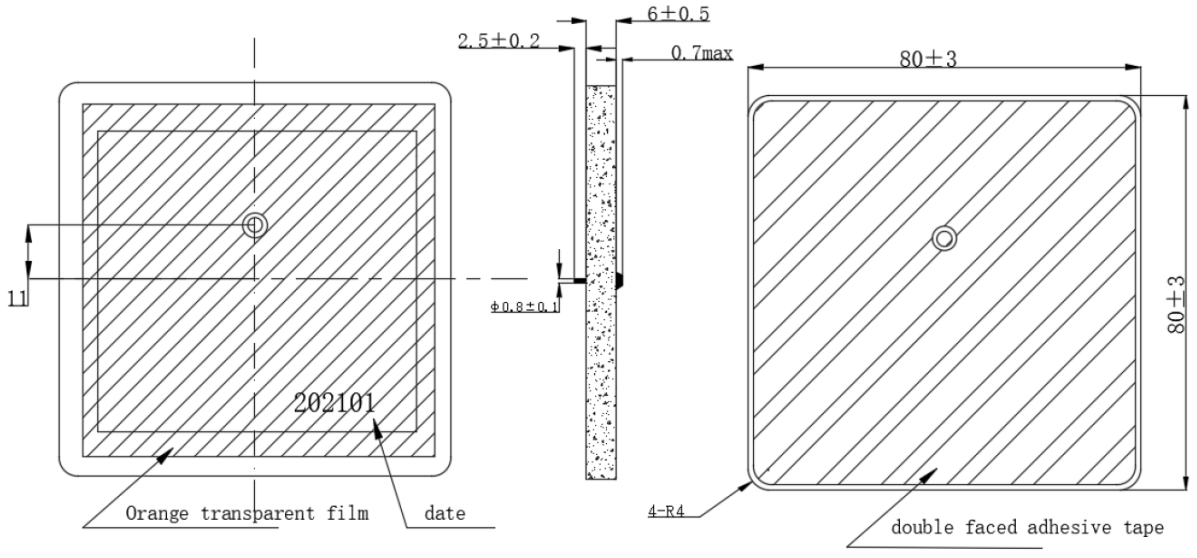
SMITH CHART



RADIATION PATTERN



OUTLINE DIMENSION:



Other Tolerance: ±0.5mm

Unit: mm

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