





RA-UC-SFF-1204801

Product Information

SKU	RA-UC-SFF-1204801
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Description

The RA-US-SFF-1204801 is a Radio Frequency Identification Antenna operating in the US-band from 900 MHz to 928 MHz, featuring a maximum gain of 17 dBic. It comes with an SMA Female connector output. One crucial feature is the low-profile design coming with a **total antenna thickness of only 12.5 mm**, which makes the well suited for flush-mounted application. The antenna features **a very high gain of 17 dBi** with a low VSWR of less than 1.5. The high gain comes **very small beamwidth of 14°** in XZ plane. This antenna model plays a crucial role in enhancing the overall controlled system and ensures reliable communication, as well as radio frequency (RF) signals. The antenna is circular polarized (CP) and well-suited for applications in Inventory Management, Asset Tracking, Access Control, Vehicle Identification, Healthcare Systems, and Smart Shelves.

Technical Specification

Electrical Specification				
Frequency, Min (GHz)	0.902			
Frequency, Max (GHz)	0.928			
Patch Type	Aluminum			
Ground Type	Aluminum			
Max Gain (dBic)	17			
Polarization	RHCP (or LHCP)			
Axial Ratio (typ.)	1.5 dB			
VSWR	≤ 1.5			
Front to Back Ratio (typ.) 20 dB				
Power, Max	10 watts			
Impedance, (Ohm)	50			
3-dB Beamwidth (XZ plane)	14 deg			
3-dB Beamwidth (YZ plane)	36 deg			

Interface			
Output Type	Coaxial		
Connector	SMA		
Connector Gender	Female		
Mechanical Specification			
Cover	ABS		
Size, H (mm)	12.5		
Size, W (mm)	1218		
Size, L (mm)	488		





Technical Data Sheet

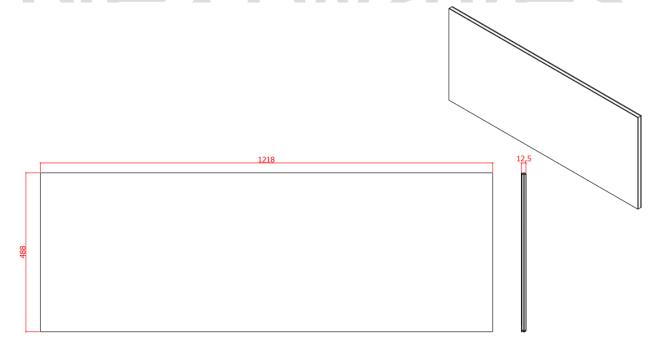
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Additional Information

Application	enhance overall system	
Application	supervision and control	
	assigned at Dock doors,	
	portals, outdoor gates	

	Inventory Management	
Solution for	Asset Tracking	
	Access Control	
	Vehicle Identification	
	Healthcare Systems	
	Smart Shelves	

Outline Drawing



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	MATERIAL:		PROJECT:	
	QUANTYTI:		NAME: RA-UC-SFF-1204801	

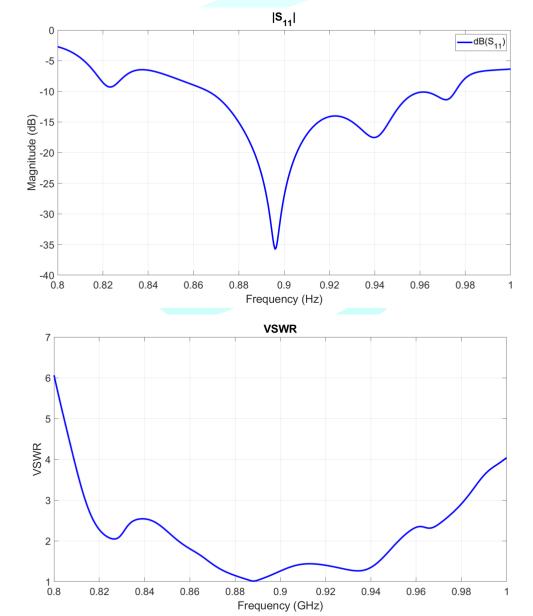




Technical Data Sheet

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Typical Test Results - Reflection Coefficient and VSWR



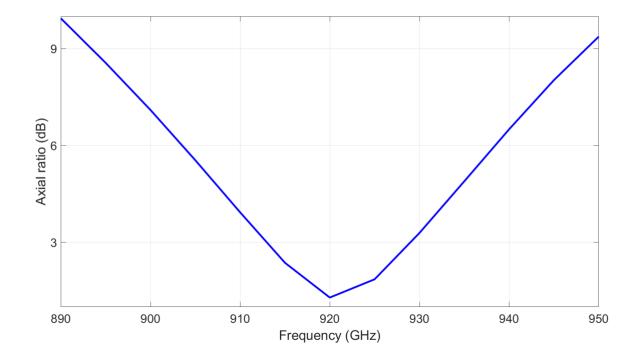




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Typical Test Results – Axial Ratio







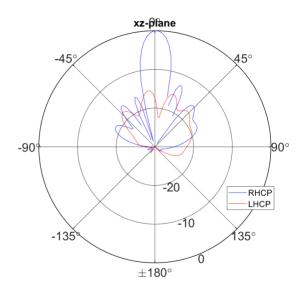


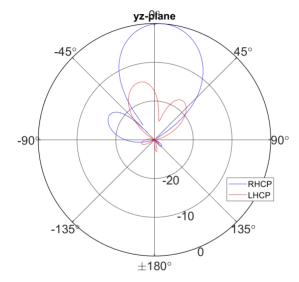
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Typical Test Results

Measured normalized radiation pattern at 915 MHz











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Typical Test Results



