

**Single Element RFID Antenna—North America  
Circular Polarized, 902-928 MHz**

**MAANAT0144**

**Features**

- Gain: 7.5 dBil Typical
- VSWR: 1.3:1 Typical
- Beamwidth: 66° 3dB Beamwidth
- Polarization: LHCP
- 10KΩ Sensing Circuit Resistor
- 13mm M5 Studs per VESA 100 Std.
- 8.8" x 8.8" x 1.0" Overall Dimensions
- RP-TNC Jack Connectors

**Description**

M/A-COM's MAANAT0144 RFID antenna is a circularly polarized fixed reader antenna. High gain (7.5 dBil Typical) and broad beamwidth (66°) increase read range and low VSWR (1.3:1 Typical) minimizes wasted power in reader systems. The antenna's light weight (0.8 lbs) and small footprint (8.8" x 8.8" x 1.0") are ideal for all RFID applications. A 10KΩ sensing resistor provides for easy system setup.

**Item Picture**



**Electrical Specifications:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 50\Omega$**

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
VSWR	Room Ambient	902-928 MHz	-	1.1:1	1.3:1	1.5:1
Gain	Room Ambient	902-928 MHz	dBil	7.1	7.5	8.0
Beamwidth	Room Ambient	902-928 MHz	Deg	63	66	69

**Absolute Maximum Ratings <sup>1</sup>**

Parameter	Absolute Maximum
Operating Temperature	+80°C
Storage Temperature	+80°C
Relative Humidity	+95%

1. Operation of this device above any one of these parameters may cause permanent damage.

**Ordering Information**

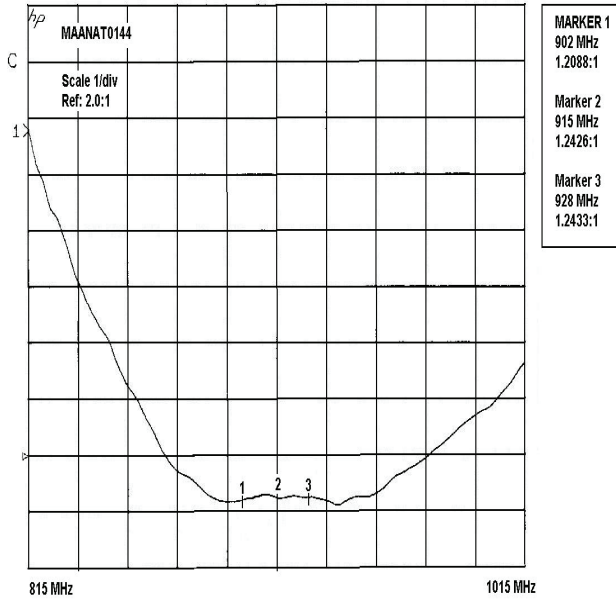
Part Number	Package
MAANAT0144	As Requested

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**Typical Performance Curves**

**VSWR**



**Gain**

