

**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 |
| | | | | | | |
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| | | | | | | |

Absolute Maximum Ratings ¹

| 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

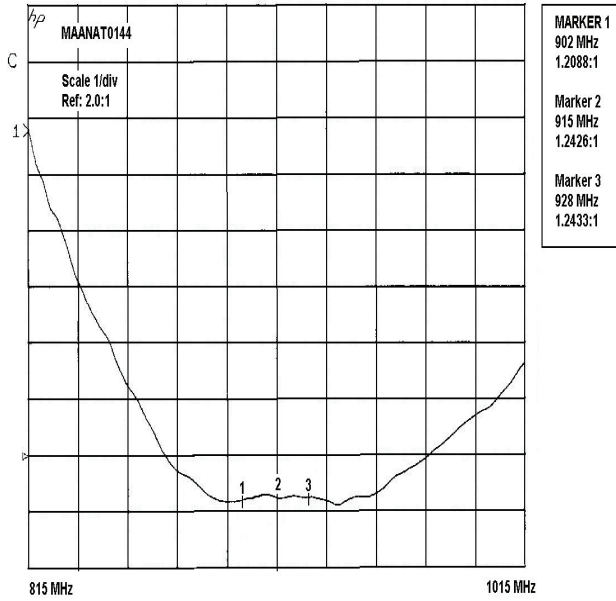
| Part Number | Package |
|-------------|--------------|
| MAANAT0144 | As Requested |
| | |
| | |

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Typical Performance Curves

VSWR



Gain

