tyco Electronics

MACOM

Slimline RFID Antenna—North America
Dual Circular Polarized, 902-928 MHz

MAANAT0123

Features

- Gain: 6.9 dBil Typical
- VSWR: 1.4:1 Typical
- Isolation: -33 dB Typical
- Beamwidth: 66° 3dB Beamwidth
- Polarization: LHCP, RHCP
- 10KΩ Sensing Circuit Resistor
- 13mm M5 Studs per VESA 100 Std.
- 19.6” x 8.8” x 1.6” Overall Dimensions
- RP-TNC Jack Connectors

Item Picture

Description

M/A-COM’s MAANAT0123 RFID antenna is a dual circularly polarized fixed reader antenna. High gain (6.9 dBil) and broad beamwidth (66°) increase read range and low VSWR (1.4:1 Typical) minimizes wasted power in reader systems. Using our patent pending technology, the antenna’s light weight (1.8 lbs) and small footprint (19.6” x 8.8” x 1.6”) are ideal for all RFID applications. A 10KΩ sensing resistor provides for easy system setup.

Electrical Specifications: T_A = 25°C, Z_0 = 50Ω

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
VSWR	Room Ambient	902-928 MHz	-	1.1:1	1.4:1	1.6:1
Isolation	Room Ambient	902-928 MHz	dB	-30	-33	-45
Gain	Room Ambient	902-928 MHz	dBil	6.3	6.9	7.7
Beamwidth	Room Ambient	902-928 MHz	Deg	63	66	69

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
MAANAT0123	As Requested

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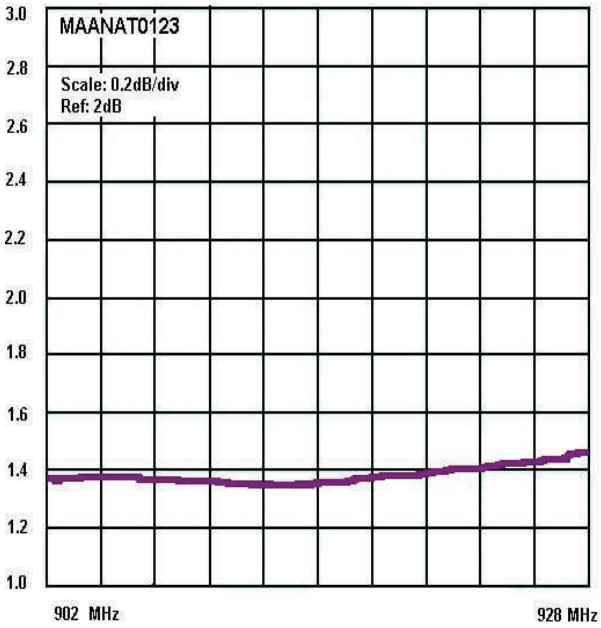
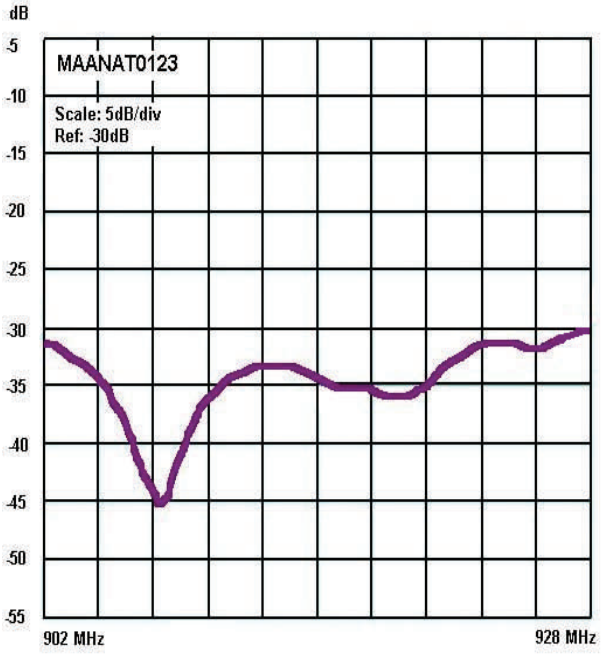
Typical Performance Curves

VSWR



Isolation



Gain