

SPEC NO.	:	SP03AC24000-0010
PART NO.	:	03L90F540E0D100
PRODUCT NAME	:	MDA2400A
DESCRIPTION	:	2.4GHz Dipole Antenna L=90mm IPEX ROHS Compliant Product

1.0 General

1.1 SCOPE

This specification is applied to the antenna use for Ground-based digital broadcasting.

1.2 Operating temperature

Satisfy an electric, mechanical characteristic at -10 to +55°C.

1.3 Storage temperature

There must be neither abnormal externals nor a permanent transformation at -40 to +80°C.

1.4 Test conditions

Standard test conditions shall be 5 to 35°C in temperature, 45 to 85%RH and 860 to 1060hpa in barometric pressure. Should any doubt arise in judgment, test shall be conducted at 20±2°C, 65±5%RH and 860 to 1060hpa.

2.0 Appearance, structure and dimension

2.1 Appearance

Finish on each part should be good, functionally free rust, crack and bad plating.

2.2 Structure and dimension

According to the drawing of individual product.

2.3 Weight

1.5g

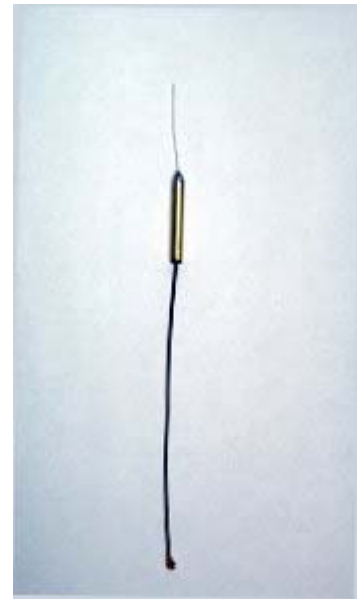
3.0 Electrical characteristics

3-1 Electrical characteristics of antenna

The antenna has the electrical characteristics given in Table 1 under the Cirrocomm standard installation conditions shown in the figure of Evaluation Board.

Table 1
Electrical Specifications

Frequency range	2400 MHz – 2500 MHz
Peak Gain	2 dBi
Average gain	1 dBi
Efficiency	70% With Free Space
VSWR	2.0 : 1 Max.
Polarization	Linear, vertical
Power handling	1W (cw)
Impedance	50 Ω
Connector	I-PEX
Cable	Ø1.13mm



Environmental & Mechanical Characteristics

Operating Temperature	- 10°C to +55°C
Storage Temperature	- 40°C to +80°C
Humidity	95% @ 55°C
Weight	1.5 g

NO.	NAME	FINISH	MAT'L	Q'TY	MEMO
1.	Brass Tube	NICKEL PLATED	BRASS	1	
2.	Cable	GRAY	TEFLON	1	
3.	Connector	GOLD PLATED	BRASS	1	I-PEX
4.	Holder	BLACK	PP	1	

