



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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RF Antenna Assembly Specification

ELECTRICAL PROPERTIES

- 1.1 Frequency Range..... 2.4GHz ~2.5GHz
- 1.2 Impedance..... 50 Ohm Nominal
- 1.3 VSWR..... 2 (Max)
- 1.4 Return Loss..... -10dB (Max)
- 1.5 Radiation..... Omni-directional (Only Antenna)
- 1.6 Gain(peak)..... 2.0dBi (Only Antenna)
- 1.7 Cable Loss..... 0.7dB
- 1.8 Polarization..... Linear Vertical
- 1.9 Admitted Power..... 1W

PHYSICAL PROPERTIES

- 2.1 Cable..... § 1.13 Black
- 2.2 Antenna Cover.....TPEE
- 2.3 Antenna Base..... PC/PBT
- 2.4 Operating Temp.....-25°C ~ +75°C
- 2.5 Storage Temp.....-30°C ~ +75°C
- 2.6 Color..... Black
- 2.7 Connector..... IPEX Compatible(MHF4)



Mechanical Specification

LTR	DESCRIPTION	DATE	REQ. BY
△	NEW Release	12/05/12	HWCHAN

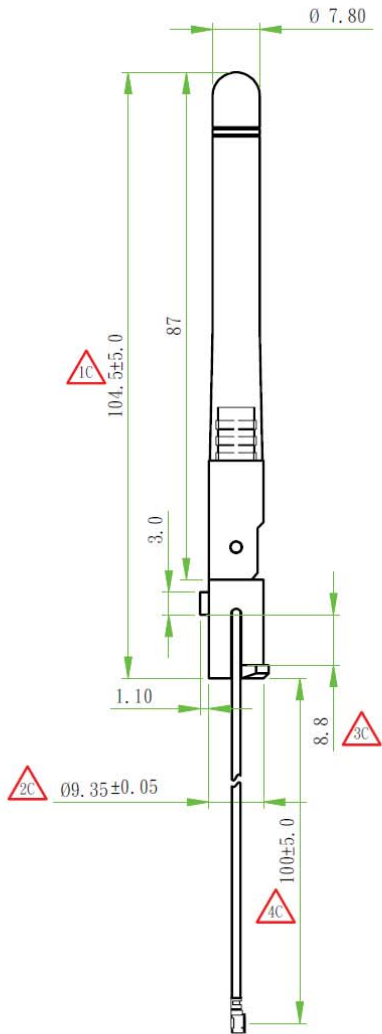
RoHS COMPLIANT

MECHANICAL

Antenna Cover : TPEE
 Antenna Base : PC/PBT
 Color: Black

ELECTRICAL

Frequency : 2.4GHz
 Cable : Coaxial Cable 1.13(Black)
 Connector : IPEX Compatible(MHF4)



※凡標記△記號者, 為品管檢驗之尺寸

設計 DR. HWCHAN 2012/12/05	核准 APPD. Marco 2012/12/05	容許公差 TOLERANCE .XXX ±0.20 .XX ±0.35 .X ±0.50 X ±1.00 ANG ±5	品名 ARTICLE EDA-8709-2G4C1-B27
版本說明	REVISION NOTE		
MAGLAYERS			單位 UNIT mm
			比例 SCALE ****
			張數 SHEET 1
			版本 REV. A

Test Report

ELECTRICAL CHARACTERISTICS

P/NO: EDA-8709-2G4C1-B27

Spec: 2.4 GHz ~2.5GHz

S11

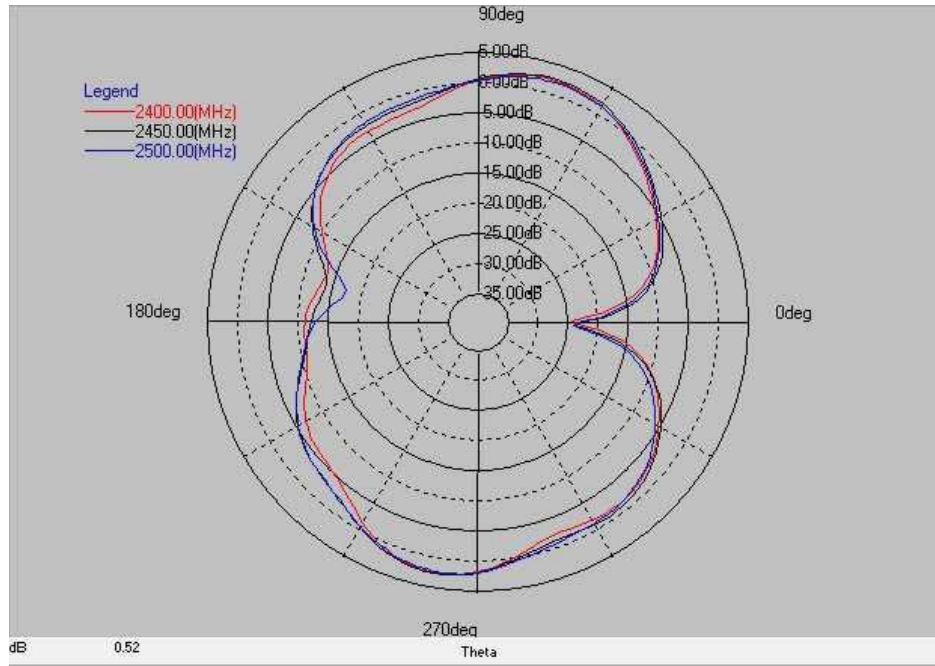


VSWR



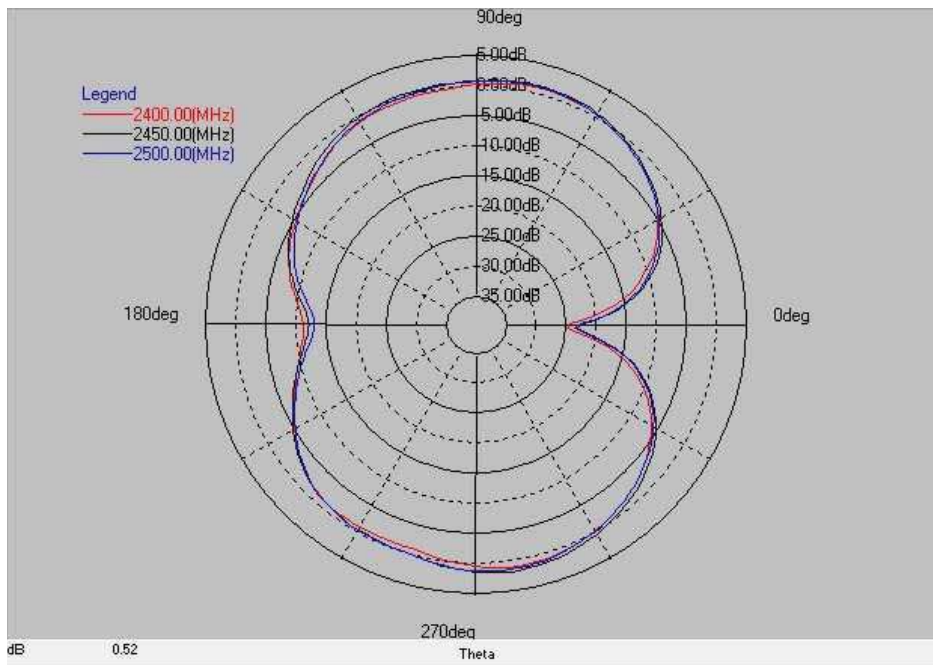
MAG.LAYERS

Frequency(MHz) : 2400~2500. Pattern Field : X-Z plane



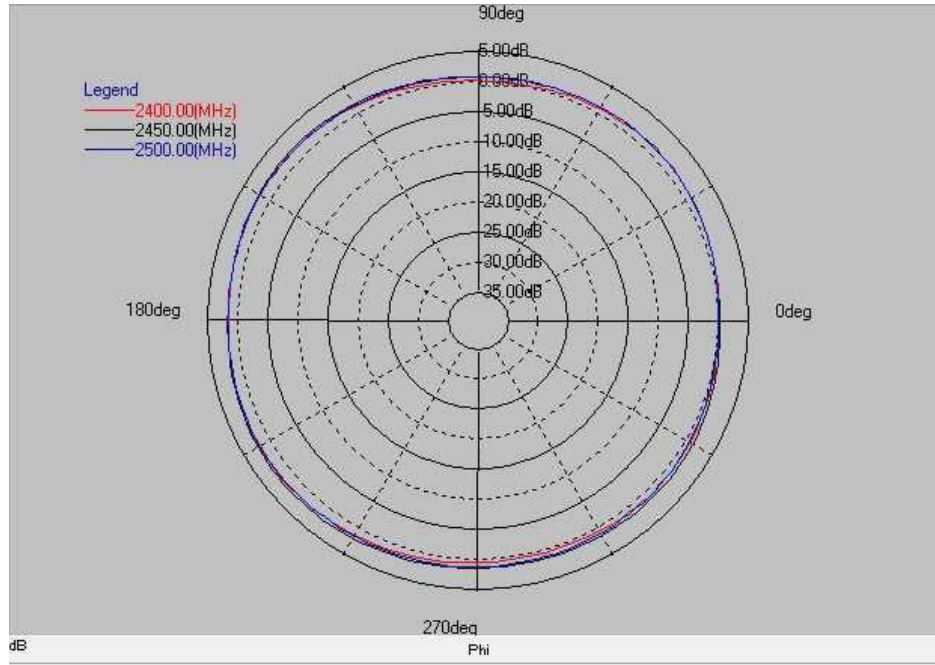
Layer	Max value	Min value	Average
2400(MHz)	2.05 dB	-24.34 dB	-2.61 dB
2450(MHz)	2.25 dB	-23.80 dB	-2.07 dB
2500(MHz)	2.16 dB	-24.13 dB	-2.29 dB

Frequency(MHz) : 2400~2500. Pattern Field : Y-Z plane



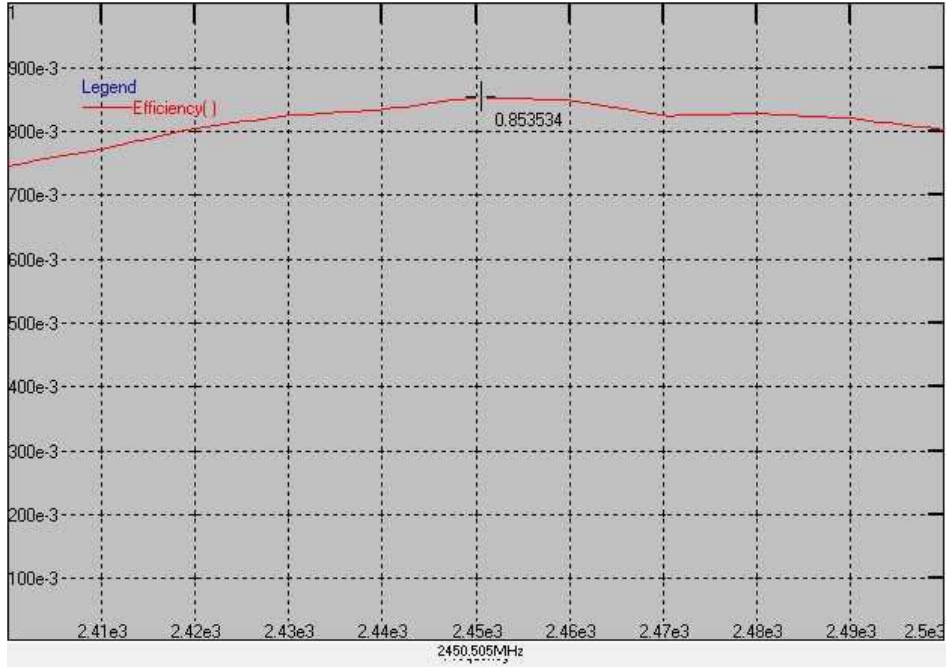
Layer	Max value	Min value	Average
2400(MHz)	0.89 dB	-24.94 dB	-2.45 dB
2450(MHz)	1.59 dB	-23.09 dB	-1.85 dB
2500(MHz)	1.30 dB	-23.44 dB	-2.16 dB

Frequency(MHz) : 2400~2500. Pattern Field : X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	2.12 dB	-0.06 dB	1.02 dB
2450(MHz)	2.32 dB	0.34 dB	1.40 dB
2500(MHz)	1.91 dB	0.16 dB	1.15 dB

Antenna Efficiency



Maximum Efficiency At 2.4~2.5GHz: 85.35%

