

1. Description

BDE-ANT-MP26RA is an integrated PCB trace antenna designed for BDE-MP26R module series, including but not limited to the below model numbers:

- BDE-MP26R

The dimension of the antenna area is 15mm x 3.8mm.



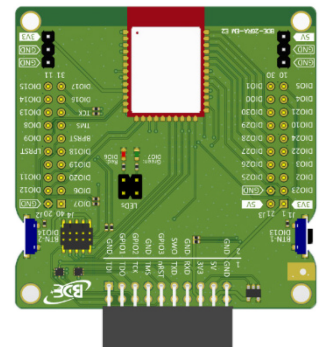
2. Specifications

Electrical	
Frequency (MHz)	2400 - 2500
Efficiency	28.80%
Peak Gain	-0.84dBi
Impedance	50 ohm
Polarization	Linear
Radiation	Omni-directional
Mechanical	
Dimension	15mm x 3.8mm x 0.6mm
PCB Substrate	FR4
Environmental	
Temperature Range	-40°C to 105°C

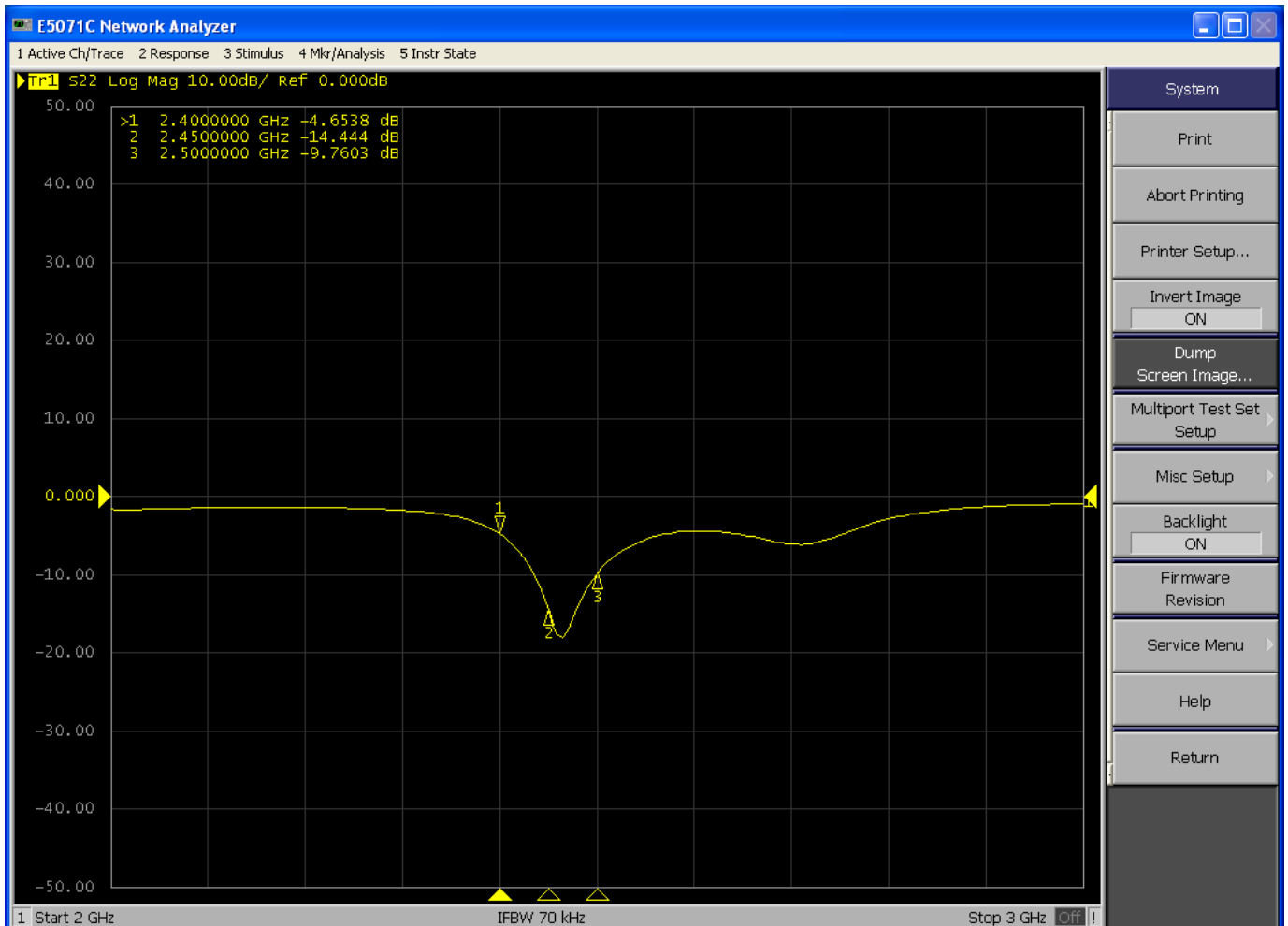
3. Antenna Characteristics

The antenna characteristics data are measured with the module sitting on the evaluation board as the picture on the right shows.

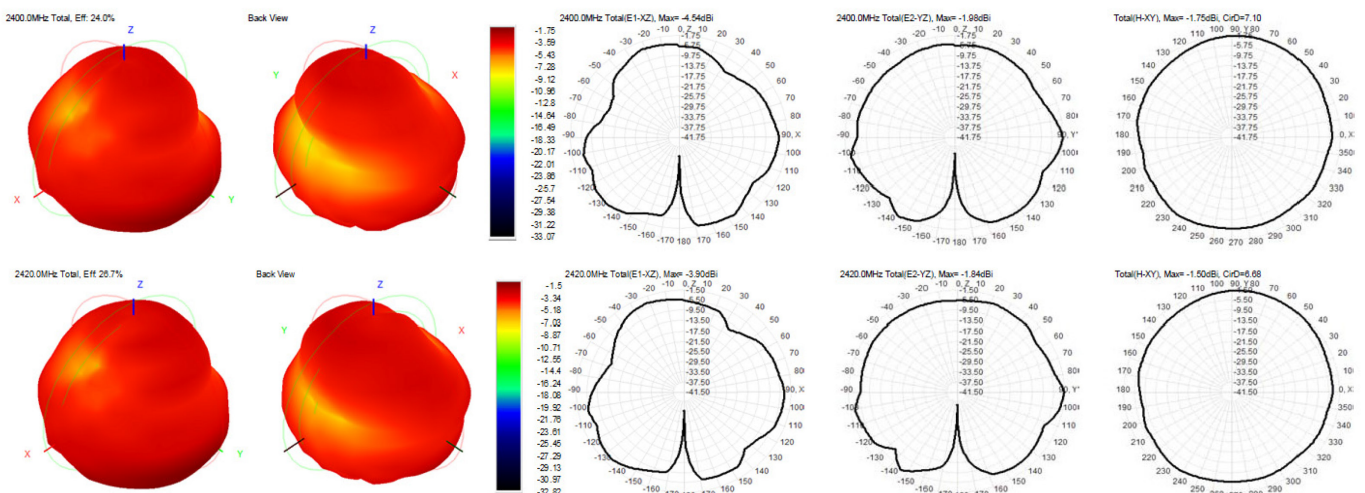
The dimension of the evaluation board is 59mm x 58.5mm x 1.6mm.

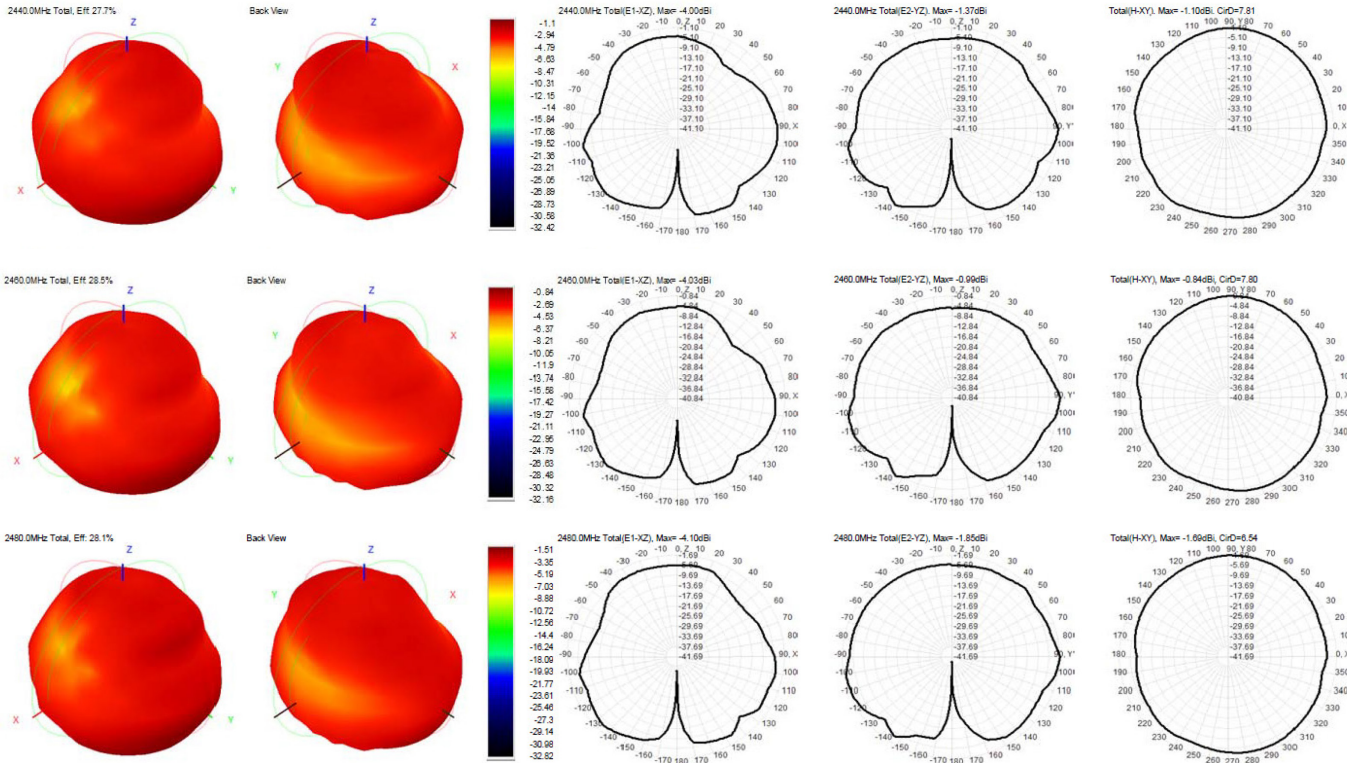


3.1 Return Loss



3.2 Radiation Pattern





3.3 Efficiency and Gain

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	23.95	-1.75
2410	25.88	-1.66
2420	26.67	-1.50
2430	27.29	-1.32
2440	27.66	-1.10
2450	28.05	-0.88
2460	28.53	-0.84
2470	28.80	-1.13
2480	28.07	-1.51
2490	27.64	-1.01
2500	27.74	-0.65

4. Revision History

Revision	Remark	Date
V1.0	Initial release	2024/6/3

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