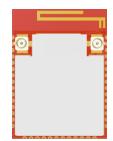


1. Description

BDE-ANT-MB13 is an integrated PCB trace antenna designed for BDE-MB13R/BDE-MB13P1/BDE-MB13P2/BDE-MP26P module series, including but not limited to the below model numbers:

- BDE-MB13R
- BDE-MB13P1
- BDE- MB13P2
- BDE-MP26P



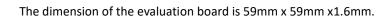


2. Specifications

Electrical				
Frequency (MHz)	2400 - 2500			
Efficiency	42%			
Peak Gain	0.8dBi			
Impedance	50 ohm			
Polarization	Linear			
Radiation	Omni-directional			
Mechanical				
Dimension	19mm x 4.3mm x 0.6mm			
PCB Substrate	FR4			
Environmental				
Temperature Range	-40°C to 105°C			

3. Antenna Characteristics

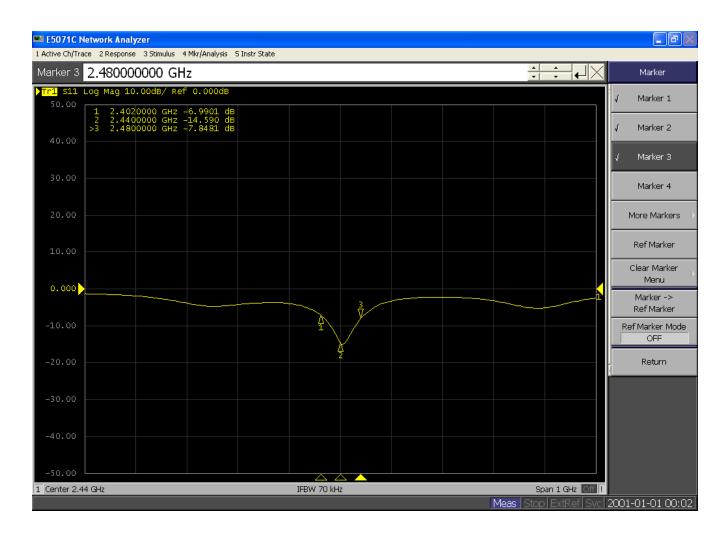
The antenna characteristics data are measured with the module sitting on the evaluation board as the picture on the right shows.



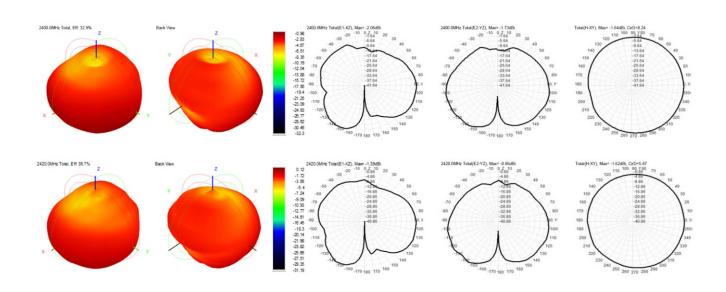




3.1 Return Loss

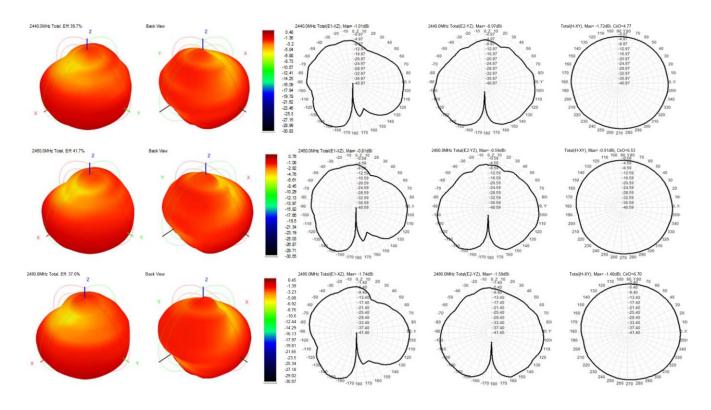


3.2 Radiation Pattern



Integrated PCB Trace Antenna for BDE-MB13R/MB13P1/MB13P2/MP26P Module Series

Datasheet



3.3 Efficiency and Gain

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	33	-1.0
2410	36	-0.3
2420	37	-0.1
2430	38	0.3
2440	40	0.5
2450	40	0.7
2460	42	0.8
2470	41	0.5
2480	38	0.5
2490	36	0.4
2500	31	-0.3

4. Revision History

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



Integrated PCB Trace Antenna for BDE-MB13R/MB13P1/MB13P2/MP26P Module Series

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