
SPECIFICATION

PCB Antenna

Model: FMB120

Manufacture: Radioworks Microelectronics Pty Ltd T/A Flairmesh Technologies

Address: Suite 2 Level 15 350 Collins Street, Melbourne, Australia 3000

1. Frequency

2400-2500 MHz

2. Applications

For Miniaturized Bluetooth System



Figure 1: PCB Layout

Frequency (MHz)	Efficiency %	Efficiency dB	Gain dB
2400	40%	-4.0	1.1
2410	45%	-3.4	2.2
2420	52%	-2.9	2.2
2430	55%	-2.6	2.0
2440	56%	-2.5	2.1
2450	53%	-2.8	1.4
2460	61%	-2.2	2.7
2470	61%	-2.2	2.1
2480	60%	-2.2	2.7
2490	58%	-2.4	2.1
2500	57%	-2.4	2.3

Table 1: Antenna Efficiencies and Gains

Legend
 — 2410.00(MHz)
 — 2440.00(MHz)
 — 2470.00(MHz)

Phi=0°

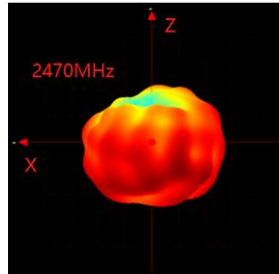
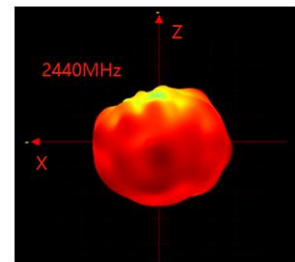
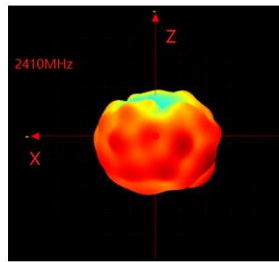
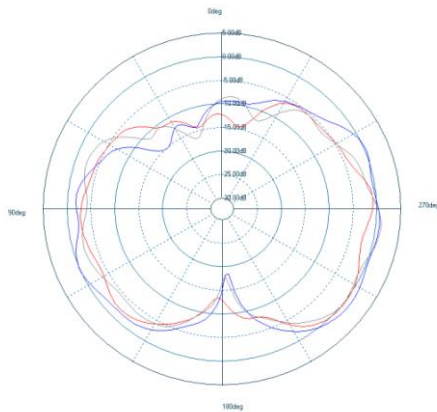


Figure 2: 3D Patterns – XZ Plane

Legend
 — 2410.00(MHz)
 — 2440.00(MHz)
 — 2470.00(MHz)

Phi=90°

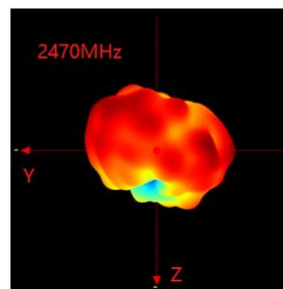
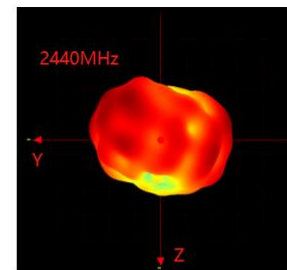
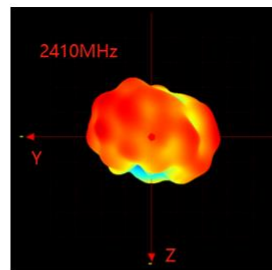
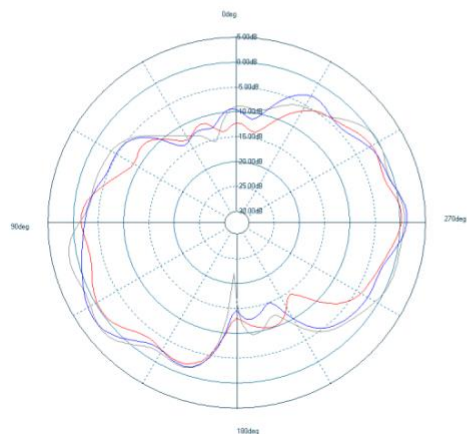


Figure 3: 3D Patterns – YZ Plane

Legend
 — 2410.00(MHz)
 — 2440.00(MHz)
 — 2470.00(MHz)

Theta=90°

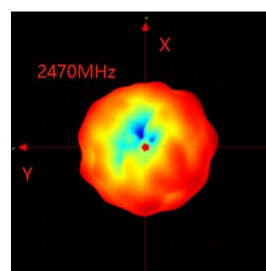
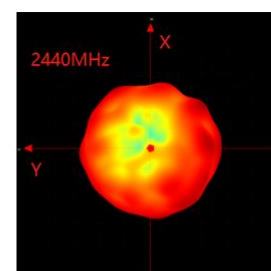
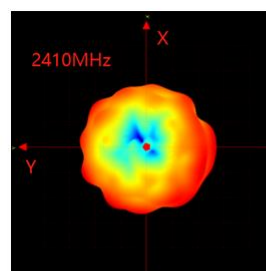
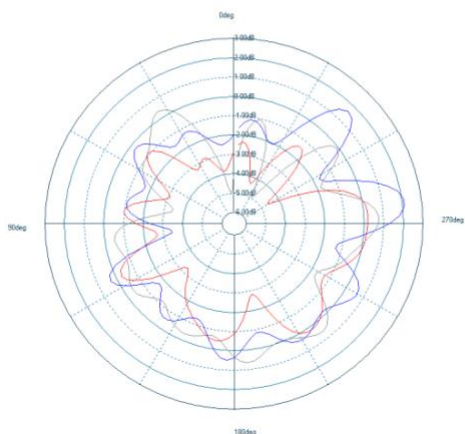


Figure 4: 3D Patterns – XY Plane