

 LG Innotek		DOCUMENT No :	
REG. DATE : 2024.07.04	SPECIFICATION MODEL NAME : wBMS RF Module	REV.NO : 0.1	
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1. Mechanical Specification



Part	Specification	Unit
Antenna Dimension	5.3 × 15.5	[mm]
Module Dimension	23.9 × 15.5	[mm]

2. Antenna Characteristics

Antenna Performance				
Parameter	Min	Typ	Max	Unit
Frequency Range	2400	2450	2480	MHz
Directivity	-	Omni	-	-
Full Bands Average Gain	-	-	-4.04	dBi
Full Bands Average Peak Gain		1.53		
V.S.W.R	4.0:1	-	-	Under
Impedance		50		Ohm
Radiation Material		Printed		

3. Efficiency

	1	2	3	4	5	6	7	8	9
Frequency(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480
Efficiency(dB)	-5.64	-4.68	-4.28	-3.83	-3.59	-3.57	-3.42	-3.57	-3.81
Efficiency(%)	27.3	34.0	37.3	41.4	43.8	43.9	45.5	43.9	41.6
H-Plane	-12.63	-11.59	-11.01	-10.32	-9.86	-9.68	-9.43	-9.48	-9.65
E1-Plane, AVG(dB)	-11.10	-10.09	-9.48	-8.76	-8.20	-7.94	-7.60	-7.63	-7.82
E2-Plane, AVG(dB)	-7.62	-6.69	-6.29	-5.86	-5.60	-5.57	-5.43	-5.58	-5.81
Peak Gain(dB)	0.02	1.04	1.44	1.84	2.01	1.94	2.03	1.83	1.61
Directivity(dB)	5.67	5.73	5.72	5.67	5.59	5.52	5.45	5.40	5.41
Minimum Gain(dB)	-14.19	-12.88	-13.34	-13.56	-13.60	-13.39	-13.29	-13.24	-13.05
Average Efficiency	-4.04 dB, 39.4 %								

z

-13.60dB

y

x

2.01dB

