

Approval Paper

Internal Antenna

Manufacturer: SUPREMA

MODEL: BS2A-OAPWB, BS2A-ODPB

PART No: BS2A BLE Antenna

page2 ----- Spec

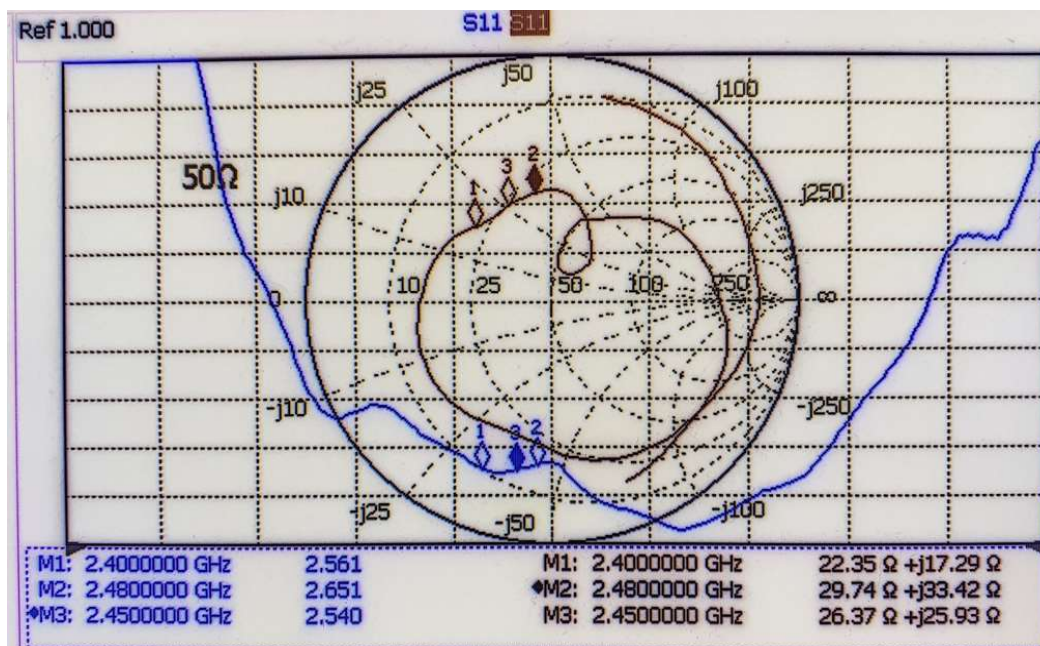
page3----- Electrical Performance Data

page4 ----- Drawing & picture

Spec

Band	2.4GHz ISM
Frequency	2.4~2.48GHz
VSWR	≤ 3
Peak Gain	0.5 ~ 2.1 dBi
Avg Gain	-5.5~-4 dBi
Directivity	Omni-directional
Polarization	Linear
Imapedance	50 Ohms
TYPE	PCB(FR4) type MONO

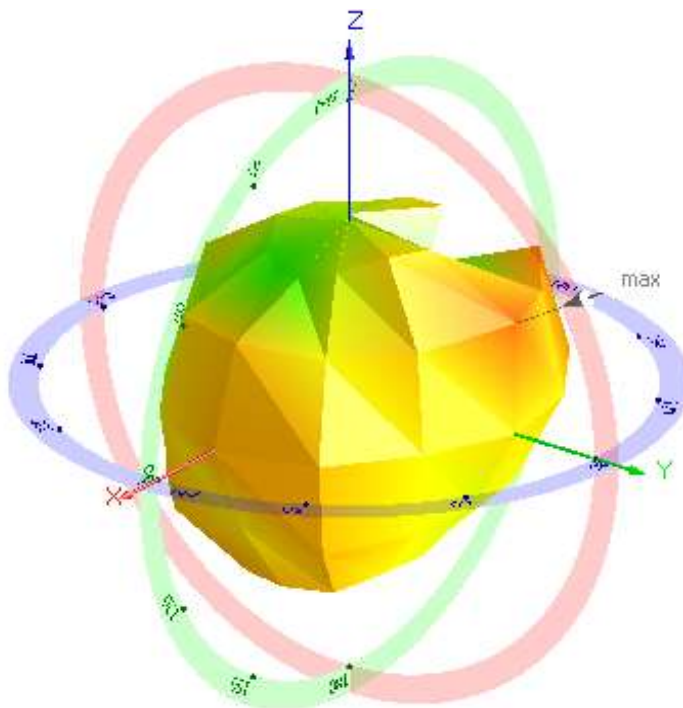
VSWR



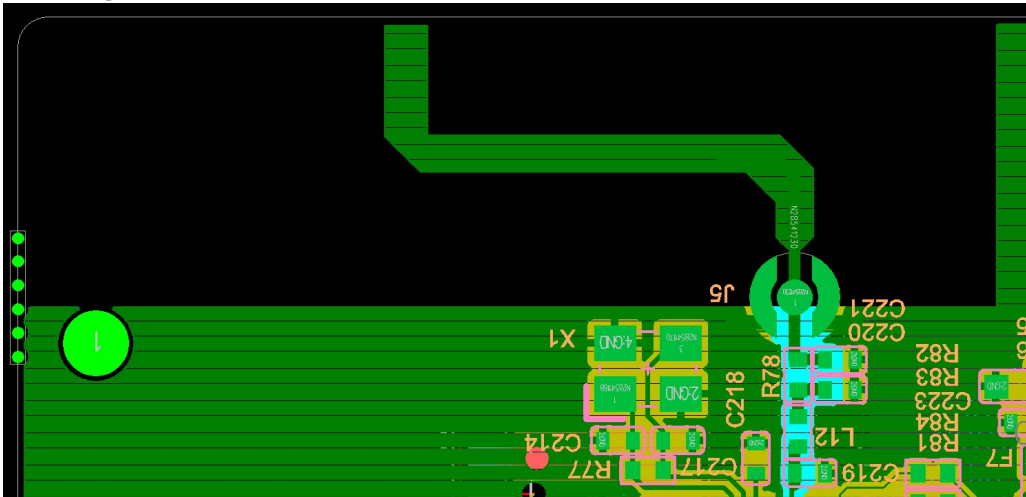
Radiation

No.	Fr.[GHz]	θ -Pol(H)			ϕ -Pol(V)			PwrSum				
		Eff.[%]	Avg.[dB]	Peak[dBi]	Eff.[%]	Avg.[dB]	Peak[dBi]	Eff.[%]	Avg.[dB]	Peak[dBi]	θ [deg]	ϕ [deg]
1	2.4	14.7	-8.32	-2.95	17.2	-7.65	-0.22	31.9	-4.96	0.51	60	90
2	2.41	14.4	-8.41	-2.81	16.9	-7.73	-0.29	31.3	-5.05	0.69	60	90
3	2.44	13.5	-8.7	-2.43	15.6	-8.06	-0.63	29.1	-5.36	1.07	60	90
4	2.48	16.6	-7.8	-1.48	19.4	-7.12	0.44	36	-4.44	1.83	60	90
5	2.49	18.3	-7.39	-1.01	21.3	-6.72	0.7	39.5	-4.03	2.12	60	90

Pattern



Drawing



Pictures

