

Approval Paper

Internal Antenna

Manufacturer: SUPREMA

MODEL: BS3M-APB, BS3M-DB

PART No: BS3M-BLE Antenna

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page3----- Electrical Performance Data

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Confidential

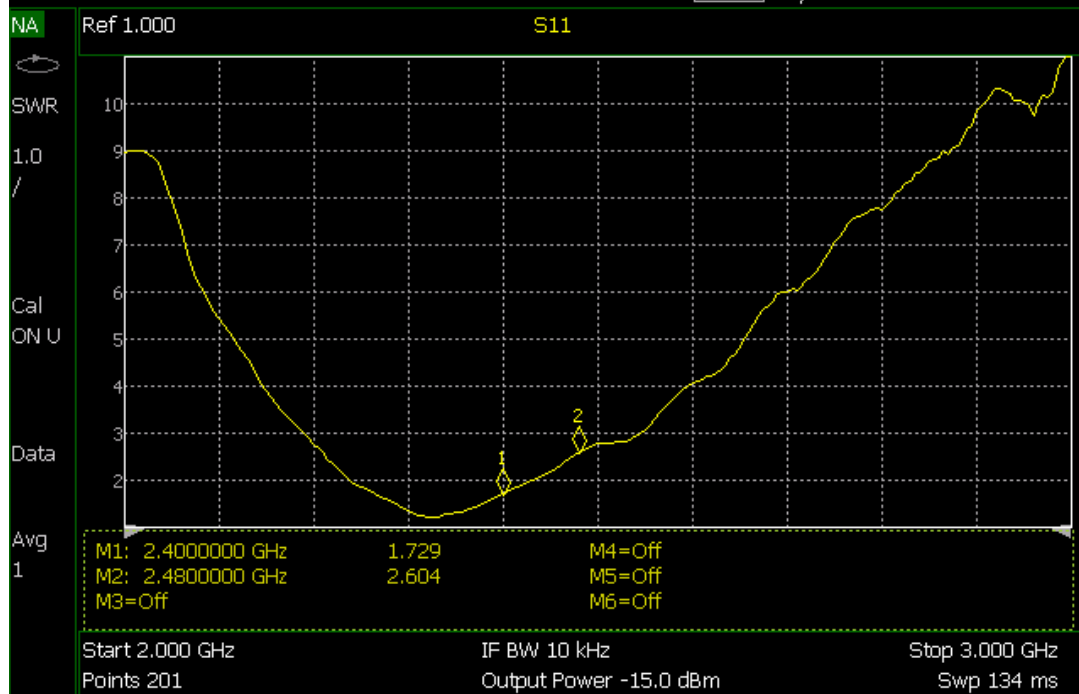
Spec

Band	2.4GHz ISM
Frequency	2.4~2.483GHz
VSWR	≤ 3
Peak Gain	1.46 ~ 2.27 dBi
Avg Gain	-5.09 ~ -4.59 dBi
Directivity	Directional
Polarization	Linear
Imapedance	50 Ohms
TYPE	PCB(FR4) type PIFA

VSWR

Keysight Technologies: N9914A, SN: MY61271723

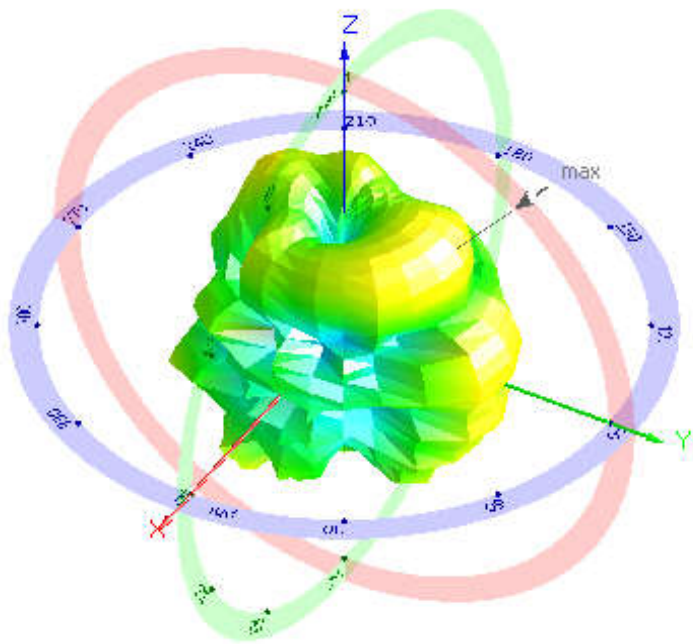
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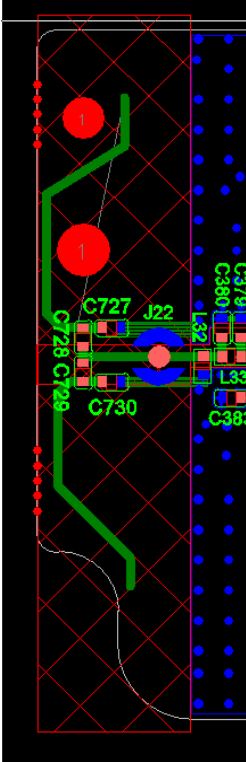
Radiation

	θ -Pol(H)					ϕ -Pol(V)						PwrSum				
Freq.[GHz]	Eff.[%]	Avg.[dBi]	Peak[dBi]	θ [deg]	ϕ [deg]	Eff.[%]	Avg.[dBi]	Peak[dBi]	θ [deg]	ϕ [deg]		Eff.[%]	Avg.[dBi]	Peak[dBi]	θ [deg]	ϕ [deg]
2.4	17.44	-7.58	-0.06	35	90	17.34	-7.61	1.33	-125	135		34.79	-4.59	1.46	-125	135
2.43	14.86	-8.28	-0.71	35	90	17.67	-7.53	1.35	-125	135		32.53	-4.88	1.51	-125	135
2.46	14.49	-8.39	-0.91	40	75	18.28	-7.38	2.02	-110	135		32.77	-4.85	2.19	-110	135
2.48	14.16	-8.49	-1.29	-35	75	16.82	-7.74	2.17	-110	135		30.99	-5.09	2.27	-110	135

Pattern



Drawing



Pictures

