

Dielectric Chip Antenna



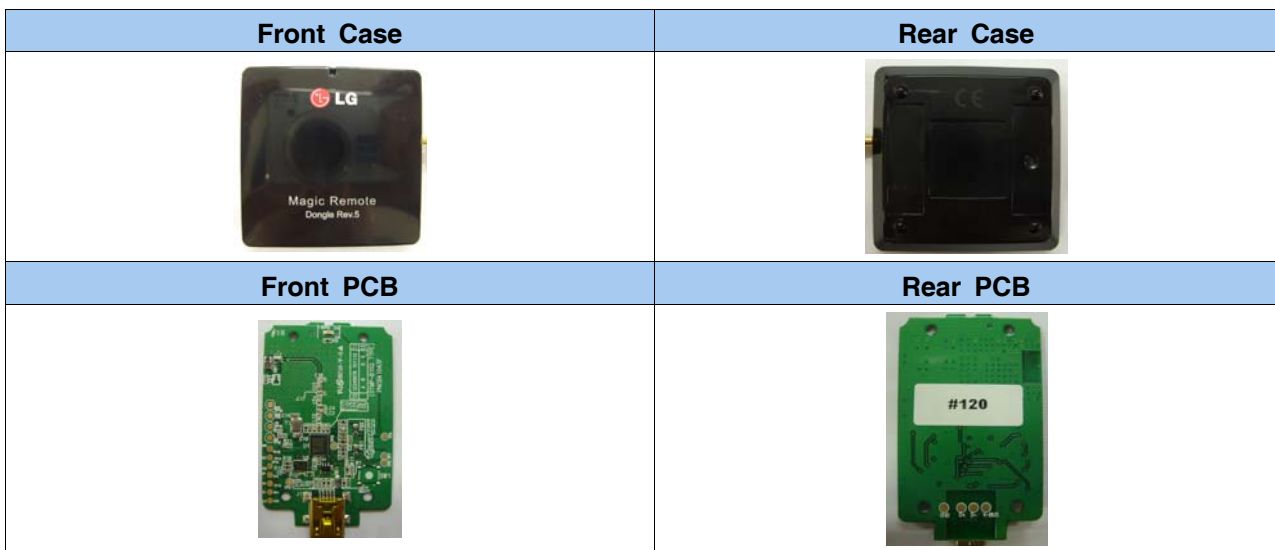
Test Condition

2012. 09. 19

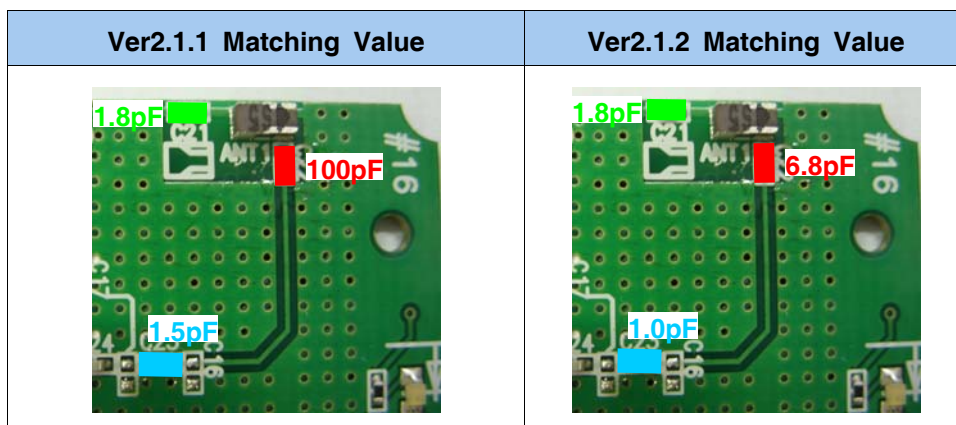
모델	M5 Dongle
PCB	PNCBA1043F
기구	PCB + 기구
Antenna	Partron SDBTPTR3015

Version	Freq.[MHz]	Measurement 3D Avg. Gain(dBi)				
		2400	2425	2445	2465	2485
Ver2.1.1(Default Condition)		-1.93	-2.32	-1.78	-3.11	-4.15
Ver2.1.2(Matching Value modify)		-2.59	-2.84	-1.00	-2.22	-2.49

Picture for 오성전자 M5 Dongle



Matching Value for 오성전자 M5 Dongle



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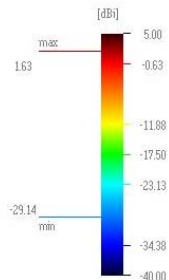
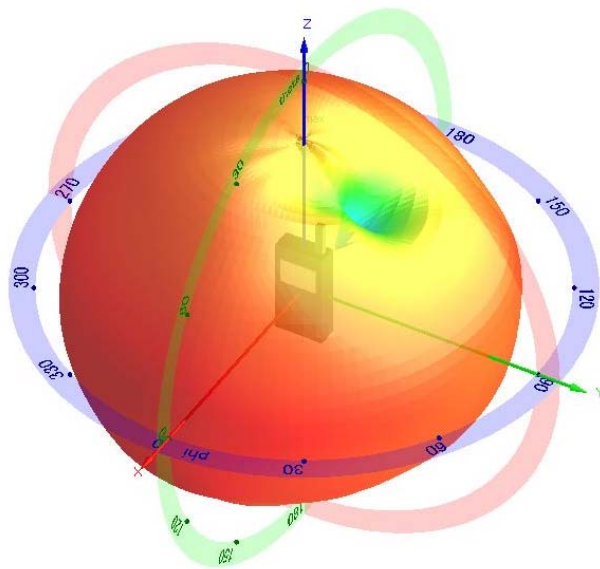
Test Result for 오성전자 M5 Dongle_Ver2.1.1_Default Condition

3D	Peak	Average	Efficiency	VSWR
2400[MHz]	1.61	-1.93	64.08	
2425[MHz]	1.11	-2.32	58.67	
2445[MHz]	1.60	-1.78	66.34	
2465[MHz]	0.22	-3.11	48.89	
2485[MHz]	-0.85	-4.15	38.44	

Radiation Pattern 3D

오성전자 M5 Dongle

2400.000MHz



Freq.	PwrSum		H(θ=90)				E1(φ=0)		E2(φ=90)					
	Eff.[%]	Avg.[dBi]	Peak[dBi]	θ[deg]	φ[deg]	Avg.[dBi]	Peak[dBi]	φ[deg]	Avg.[dBi]	Peak[dBi]	θ[deg]	Avg.[dBi]	Peak[dBi]	θ[deg]
2400.000	64.08	-1.93	1.61	105.00	210.00	-0.35	1.25	195.00	-2.29	1.03	-120.00	-2.73	1.41	-135.00
2425.000	58.67	-2.32	1.11	105.00	210.00	-0.87	0.87	255.00	-2.57	0.42	-120.00	-3.05	1.06	-135.00
2445.000	66.34	-1.78	1.60	105.00	210.00	-0.47	1.46	255.00	-1.97	1.03	-120.00	-2.50	1.54	-135.00
2465.000	48.89	-3.11	0.22	105.00	210.00	-1.93	0.00	255.00	-3.19	-0.31	-120.00	-3.84	0.08	-135.00
2485.000	38.44	-4.15	-0.85	105.00	210.00	-3.13	-1.16	195.00	-4.13	-1.30	-120.00	-4.91	-0.85	-135.00

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Test Result for 오성전자 M5 Dongle_Ver2.1.2_Matching Value Modify

3D	Peak	Average	Efficiency	VSWR
2400[MHz]	1.35	-2.59	55.06	
2425[MHz]	1.23	-2.84	57.96	
2445[MHz]	3.03	-1.00	79.39	
2465[MHz]	1.73	-2.22	59.99	
2485[MHz]	1.49	-2.49	56.32	

Radiation Pattern 3D

