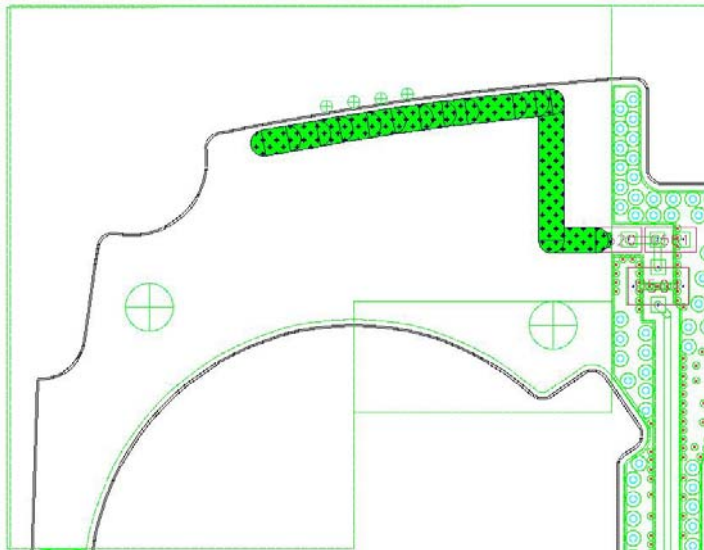
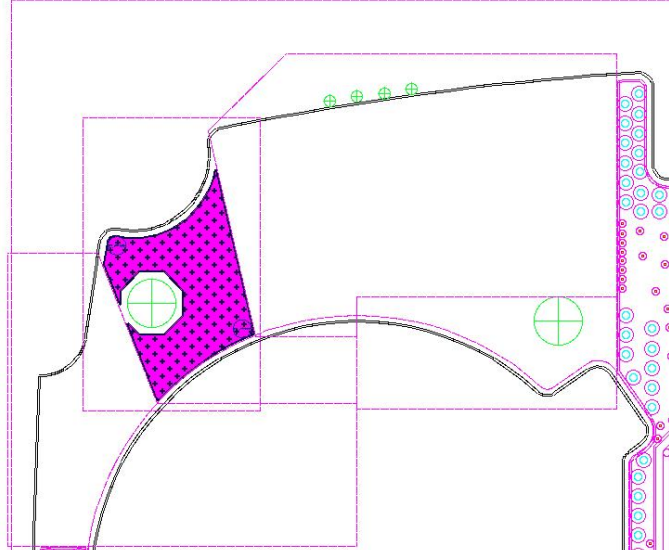
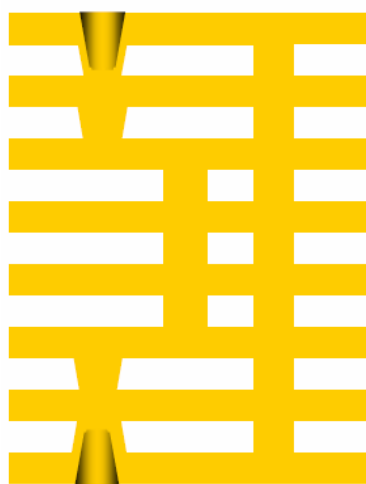


- ANTENNA
  - This specification covers the pcb pattern antenna used in Bluetooth
- MECHANICAL DIMENSION (unit : mm, tolerance :  $\pm 0.1$ )

LINK2 Bluetooth Antenna Pattern																																																																																																	
Battery View Plane	LCD View Plane																																																																																																
																																																																																																	
Antenna Type	MONO pole Type																																																																																																
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# Dielectric Chip Antenna



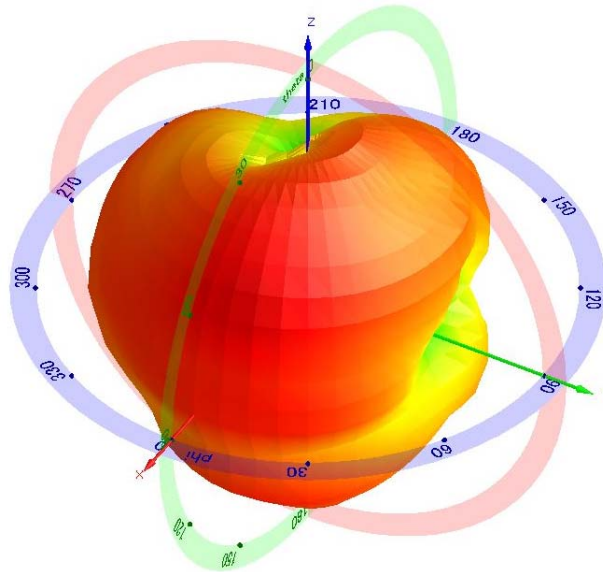
■ Test Result for Link2\_BT(패턴안테나)

2011. 01. 04

■ Link2\_BT

VSWR		Peak [dBi]	Average [dBi]	Efficiency [%]
	2400[MHz]	-0.88	-6.80	20.87
	2425[MHz]	-0.73	-6.90	20.41
	2445[MHz]	0.96	-5.36	29.12
	2465[MHz]	0.65	-5.98	25.23
	2485[MHz]	0.60	-6.25	23.74

## Link2\_BT



Freq.[MHz]	θ-Pol(H)					φ-Pol(V)					PwrSum				
	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]
2380.000	9.52	-10.21	-2.55	165.00	240.00	5.75	-12.40	-5.49	180.00	225.00	15.27	-8.16	-2.26	165.00	225.00
2400.000	12.59	-9.00	-1.11	165.00	240.00	8.28	-10.82	-4.22	180.00	210.00	20.87	-6.80	-0.88	165.00	240.00
2425.000	11.66	-9.33	-1.00	165.00	240.00	8.75	-10.58	-4.35	180.00	210.00	20.41	-6.90	-0.73	165.00	225.00
2445.000	15.87	-8.00	0.65	165.00	240.00	13.26	-8.78	-2.51	90.00	15.00	29.12	-5.36	0.96	165.00	225.00
2465.000	13.29	-8.77	0.28	165.00	240.00	11.94	-9.23	-2.36	90.00	15.00	25.23	-5.98	0.65	165.00	225.00
2485.000	12.16	-9.15	0.20	165.00	240.00	11.58	-9.36	-1.94	90.00	15.00	23.74	-6.25	0.60	165.00	225.00

## Mobile Station Over the Air Performance

<b>Model</b>	
<b>Test Date</b>	Wed 09/Mar/2011 19:50:38
<b>Event Status</b>	
<b>IMEI</b>	
<b>FCC ID Number</b>	
<b>Hardware Version</b>	
<b>Software Version</b>	

Total Radiated Power(TRP, 30degrees)					Total Isotropic Sensitivity(TIS)				
Band	Bluetooth	Bluetooth	Bluetooth		Band	Bluetooth	Bluetooth	Bluetooth	
<b>Channel</b>	0	39	78		<b>Channel</b>	0	39	78	
<b>TX Frequency(MHz)</b>				Average	<b>RX Frequency(MHz)</b>				Average
<b>TRP(dBm), 30degree</b>	-0.25	-1.32	-1.82	-1.08	<b>TIS(dBm)</b>	-81.09	-79.88	-78.77	-80.02
<b>TRP Limit(dBm)</b>					<b>TIS Limit(dBm)</b>				
<b>Pass/Fail</b>					<b>Pass/Fail</b>				
<b>TRP<sub>ch</sub>/TRP<sub>AVG</sub>(dB)</b>	0.83	-0.24	-0.74		<b>TIS<sub>ch</sub>/TIS<sub>AVG</sub>(dB)</b>	1.07	-0.14	-1.25	
<b>Limit(dB)</b>					<b>Limit(dB)</b>				
<b>Pass/Fail</b>					<b>Pass/Fail</b>				
<b>Conducted Power(dBm)</b>					<b>Conducted Sensitivity(dBm)</b>				
<b>TRP<sub>Theta</sub>(dBm)</b>	-2.30	-3.74	-4.48	-3.41	<b>TIS<sub>Theta</sub>(dBm)</b>	-79.29	-77.41	-75.95	-77.77
<b>TRP<sub>Phi</sub>(dBm)</b>	-4.50	-5.01	-5.22	-4.90	<b>TIS<sub>Phi</sub>(dBm)</b>	-76.39	-76.26	-75.57	-76.09
<b>UHRP(dBm)</b>	-3.57	-4.48	-4.87	-4.27	<b>UHS(dBm)</b>	-77.71	-76.75	-75.89	-76.85
<b>Peak EIRP(dBm)</b>	2.60	1.08	0.91	1.60	<b>Peak EIS(dBm)</b>	-84.27	-82.48	-81.42	-82.88
<b>Directivity(dBi)</b>	2.86	2.40	2.73	2.66	<b>Directivity(dBi)</b>	3.18	2.60	2.64	2.82
<b>Efficiency(dB)</b>					<b>Efficiency(dB)</b>				
<b>Efficiency(%)</b>					<b>Efficiency(%)</b>				
<b>Gain(dBi)</b>					<b>Gain(dBi)</b>				
<b>NHRP±30(π/6)(dBm)</b>	-3.85	-4.87	-5.16	-4.59	<b>NHPIS±30(π/6)(dBm)</b>	-77.44	-76.33	-75.53	-76.51
<b>NHRP±45(π/4)(dBm)</b>	-1.22	-2.35	-2.78	-2.07	<b>NHPIS±45(π/4)(dBm)</b>	-80.14	-78.84	-77.85	-79.05
<b>Minimum Power(dBm)</b>	-5.27	-5.84	-5.93	-5.67	<b>Minimum Sensitivity(dBm)</b>	-75.88	-75.51	-75.60	-75.67
<b>Test Condition</b>	FS	FS	FS		<b>Test Condition</b>	FS	FS	FS	
<b>Antenna Type</b>					<b>Antenna Type</b>				

FS=Free Space, BHR=Beside Head Right Side, BHL=Beside Head Left Side, HR=Hand Right, HL=Hand Left, BHHR=Beside Head and Hand Right Side, BHHL=Beside Head and Hand Left Side, NB=Notebook

Comment