

SUPPLIER: ShenZhen ChipsGuide technology Co.,LTD

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Nanshan District, Shenzhen, China

PAERT NAME: T32 BT PCB Antenna

(13.7mm*9mm*1.2mm)

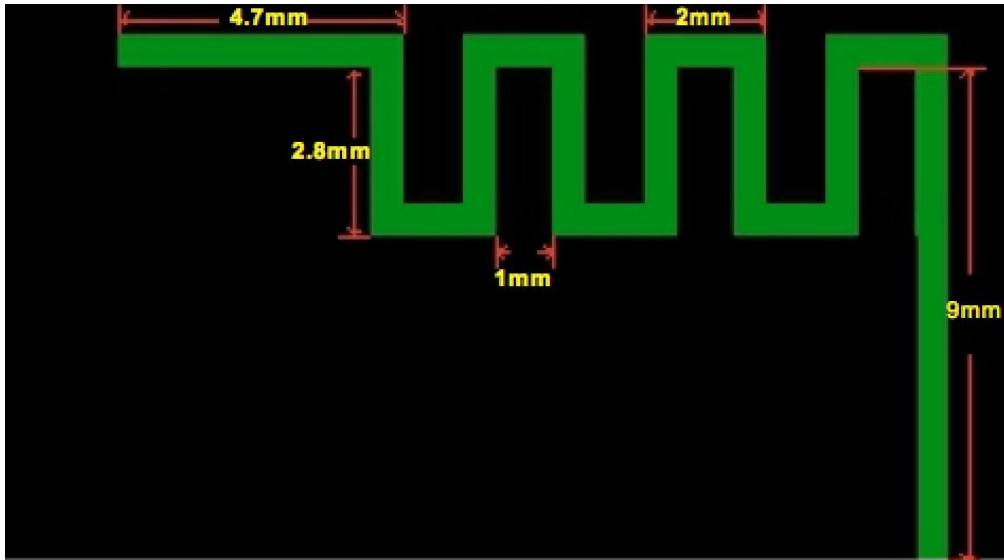
Product specification

Quick Reference Date

Ant Type	Antenna module on the system board	
Frequenc Range	2400 ~ 2500MHz	
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)	
Tot. Rad. Pwr. (dBm)	-2.3 (Input pwr – loss pwr)	
Peak EIRP(dBm)	2.3	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	6 0.2 %	
Gain (dBi)	2.3 (PK Gain XY-plane)	
Maximum Power (dBm)	2.3 (2.441GHz XY-plane)	
Minimum Power (dBm)	-7.64 (2.441GHz XY-plane)	
Avg. Power (dBm)	-1.8 (2.441GHz XY-plane)	
Input Impendence(ohm)	50	
Polarization Type	V ertical & Horizontal	
V . S .W .R	< 1.4	

All the technical data and information contained herein are subject to change without prior notice

1. Antenna Layout & module on the system board



SIZE:13.7mm*9mm*1.2mm

2. Antenna Gain

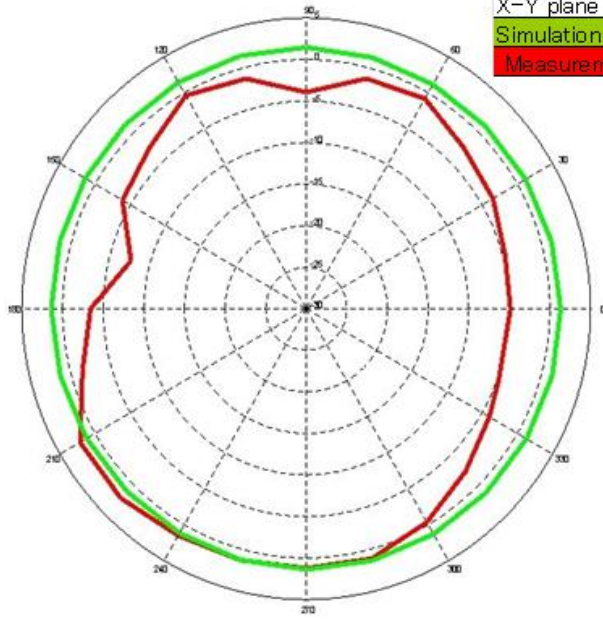
Gain Table

Unit in dBi @2.441GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	2.3	-1.8	-1.65	-3.9	2.3	-1.8	60.2 %

3. Antenna Radiation Pattern

Radiation pattern @2.441GHz

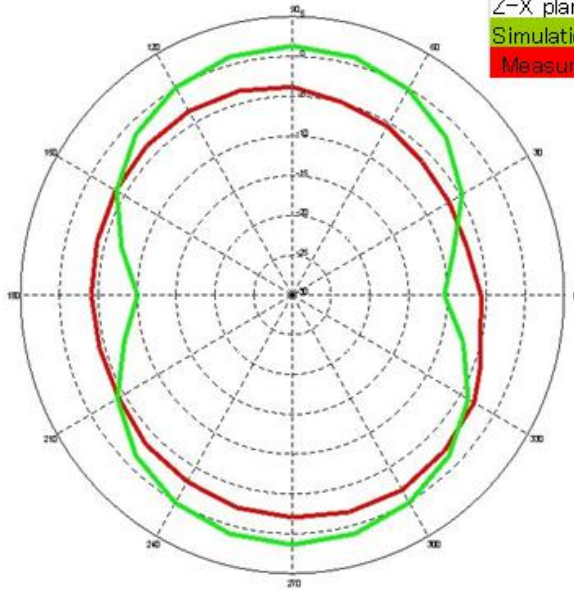
X-Y Plane



X-Y plane	Avg.	Max.	Min.
Simulation result	1.4	1.55	1.17
Measurement result	-1.8	2.3	-7.64

2441MHz

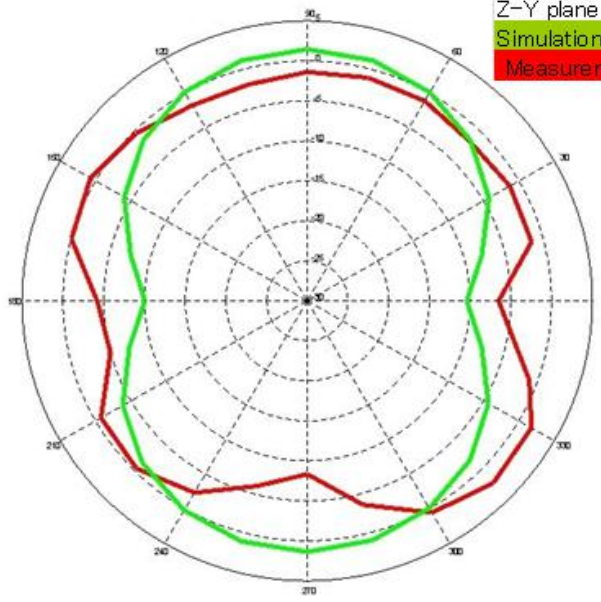
Z-X Plane



Z-X plane	Avg.	Max.	Min.
Simulation result	-2.7	1.44	-10.39
Measurement result	-3.9	-1.65	-6.68

2441MHz

Z-Y Plane

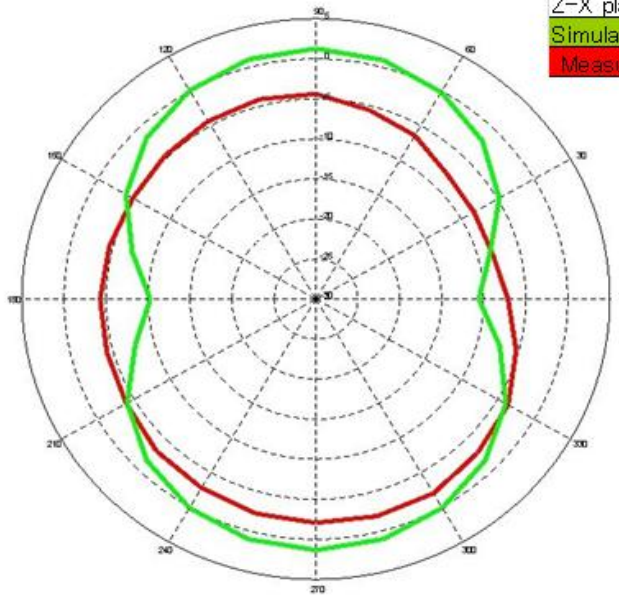


Z-Y plane	Avg.	Max.	Min.
Simulation result	-1.7	1.5	-10.39
Measurement result	-1.8	2.3	-8.31

2441MHz

Radiation pattern @2.402GHz

Z-X Plane

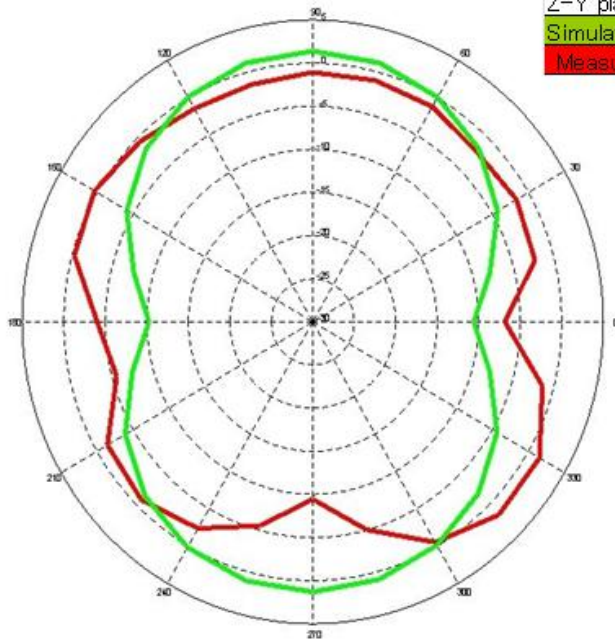


Z-X plane	Avg.	Max.	Min.
Simulation result	-2.8	1.39	-10.58
Measurement result	-4.5	-1.90	-8.24

2402MHz

Z-Y Plane

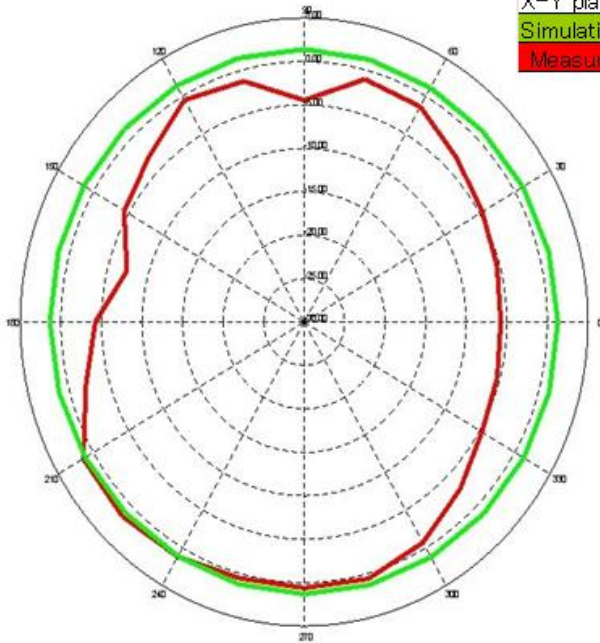
Z-Y plane	Avg.	Max.	Min.
Simulation result	-2.8	1.45	-10.58
Measurement result	-2.1	1.7	-9.42



2402MHz

X-Y Plane

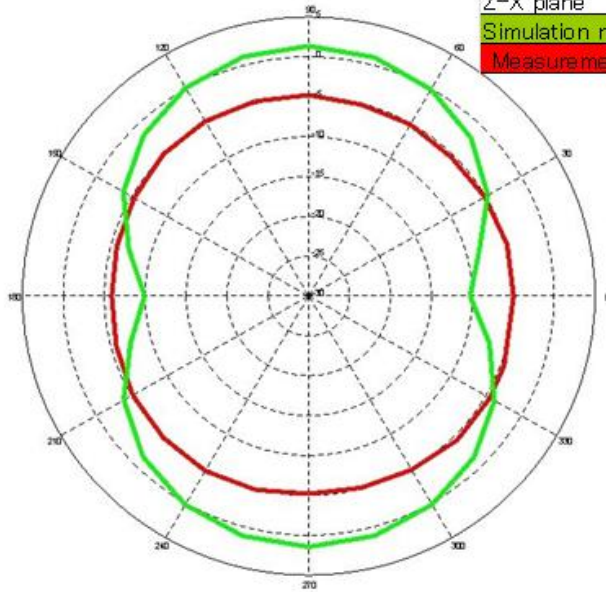
X-Y plane	Avg.	Max.	Min.
Simulation result	1.3	1.5	1.15
Measurement result	-2.3	1.7	-7.34



2402MHz

Radiation pattern @2.480GHz

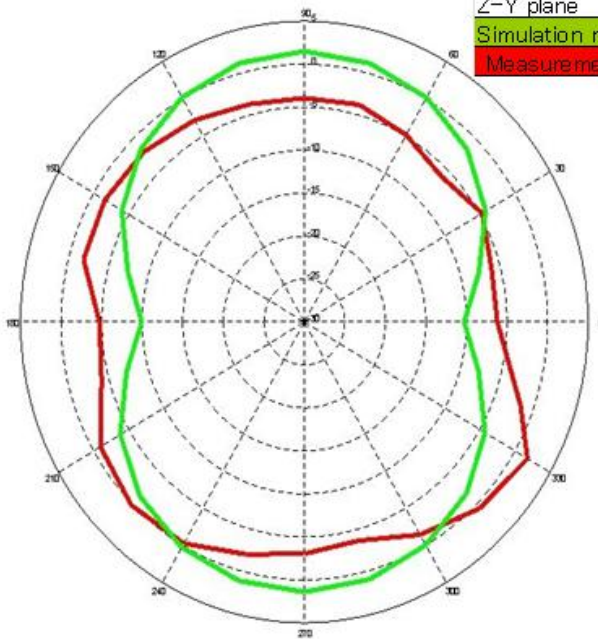
Z-X Plane



Z-X plane	Avg.	Max.	Min.
Simulation result	-2.7	1.5	-10.25
Measurement result	-5.0	-4.35	-5.88

2480MHz

Z-Y Plane

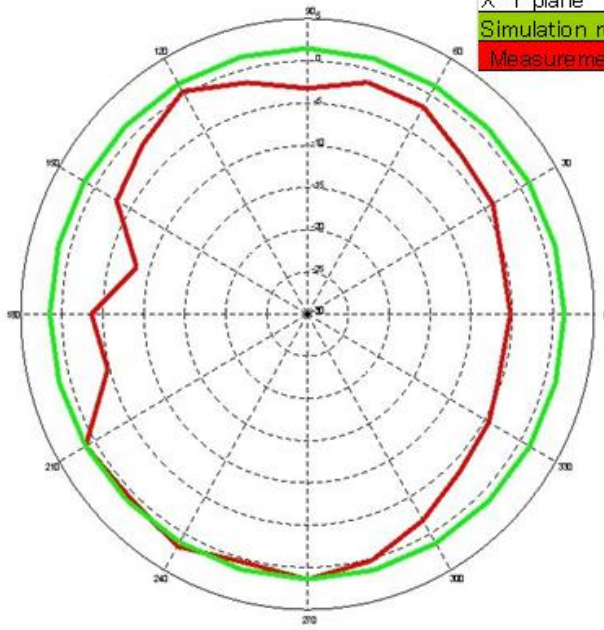


Z-Y plane	Avg.	Max.	Min.
Simulation result	-2.7	1.55	-10.25
Measurement result	-2.8	1.82	-6.16

2480MHz

X-Y Plane

X-Y plane	Avg.	Max.	Min.
Simulation result	1.4	1.61	1.22
Measurement result	-2.3	1.82	-8.38



2480MHz