

2.4GHz 1608 Chip Antenna: AAN1608F3P2G45

Application:

WLAN, 802.11b/g, Bluetooth, etc...

Features

SMD, high reliability, ultra Impact, Omni-directional...

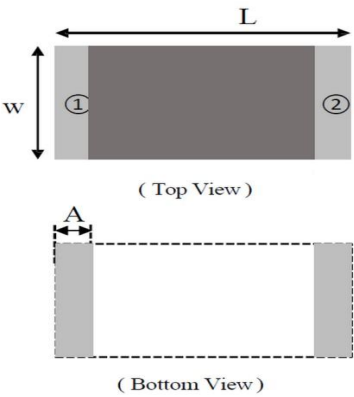
Part number

<u>AAN</u>	<u>1608</u>	<u>F3</u>	<u>P3</u>	<u>2G45</u>
(1)	(2)	(3)	(4)	(5)
(1)Product Type	Chip Antenna			
(2)Size Code	1.6x0.8mm			
(3)Type Code	F3			
(4)Packing	Paper &Reel			
(5)Frequency	2.45GHz			
(6)Internal code				

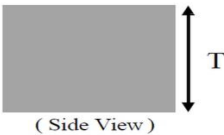
Electrical Specification

Working Frequency Range	2400 ~2500 MHz
Peak Gain	2.5 dBi (Typ.)
Impedance	50 Ohm
Return loss	10 dB (Min)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Operation Temperature(°C)	-40 ~85°C

The specification is defined on EVB.



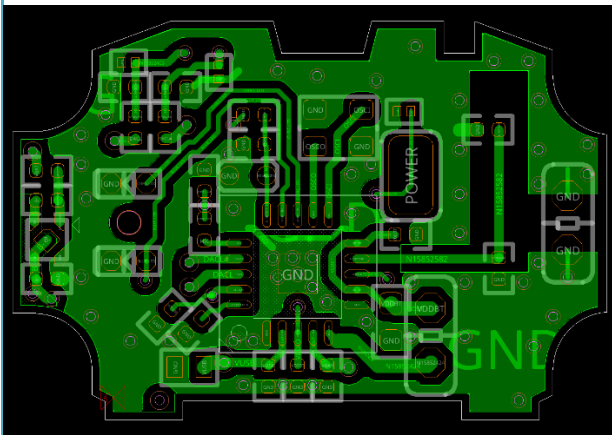
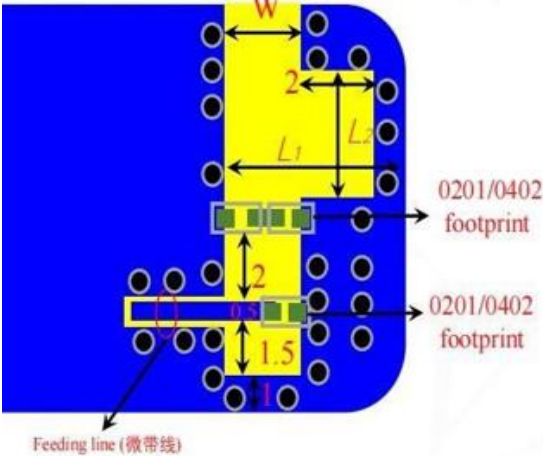
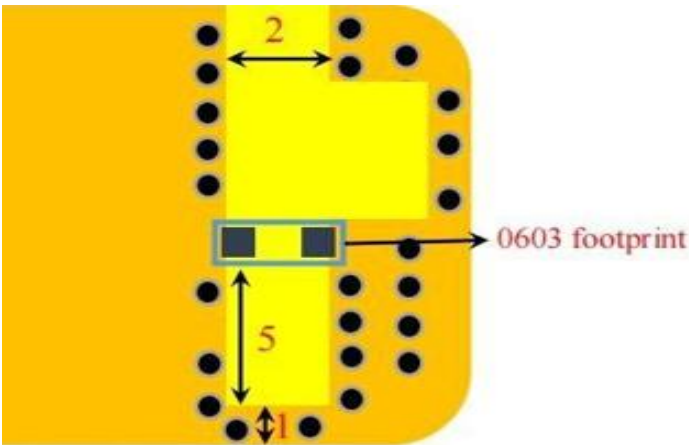
Number	Terminal Name
①	INPUT
②	NC



Symbols	L	W	T	A
Dimensions	1.60±0.20	0.80±0.20	0.80±0.10	0.30±0.10

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- Evaluation Board and Matching Circuits



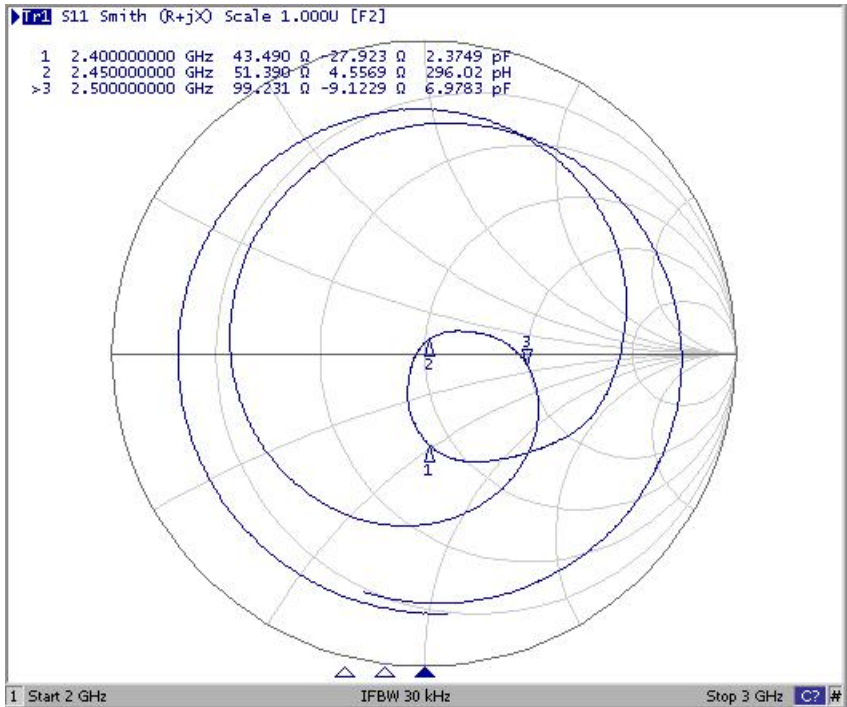
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● Electrical Characteristics

Item	Feature	Specification
1	Central frequency	2445MHz
2	Bandwidth	< 100 MHz
3	Peak gain	2.5dBi
4	VSWR	<2
5	Polarization	Linear
6	Azimuth beamwidth	Omnidirectional
7	Impedance	50 Ω

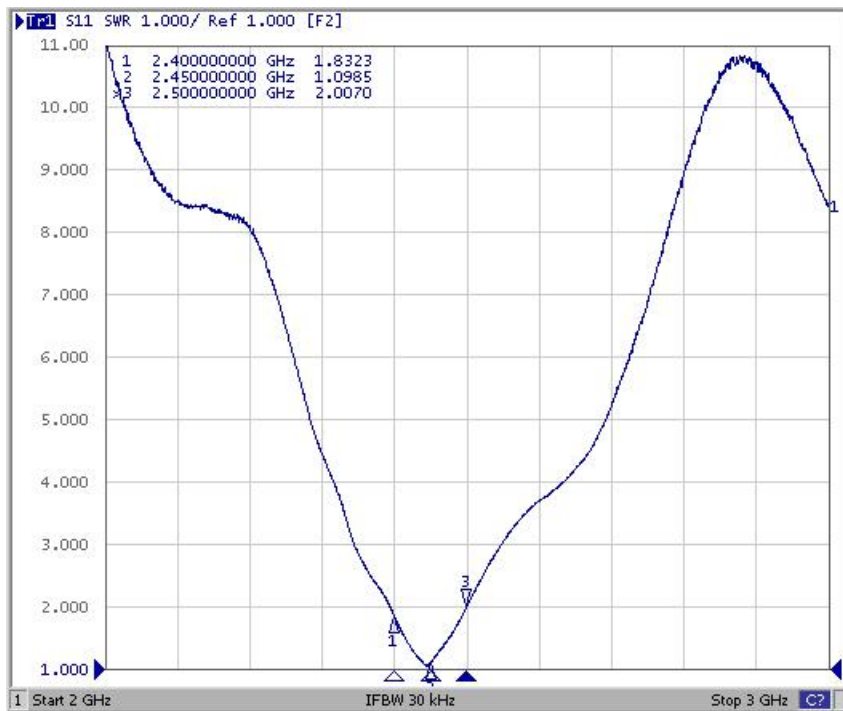
NOTE: The specification is defined based on the test board dimension.

(1) Smith Chart



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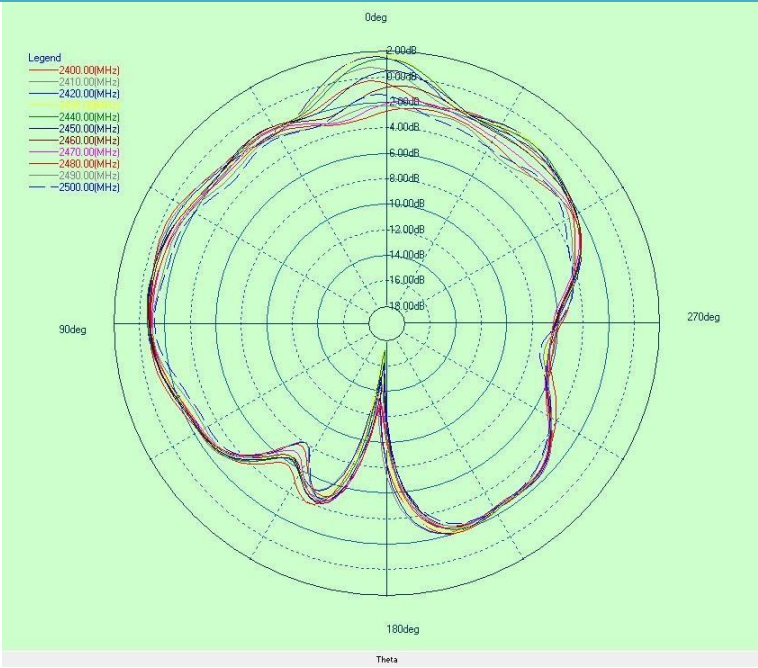
(2) S-Parameter



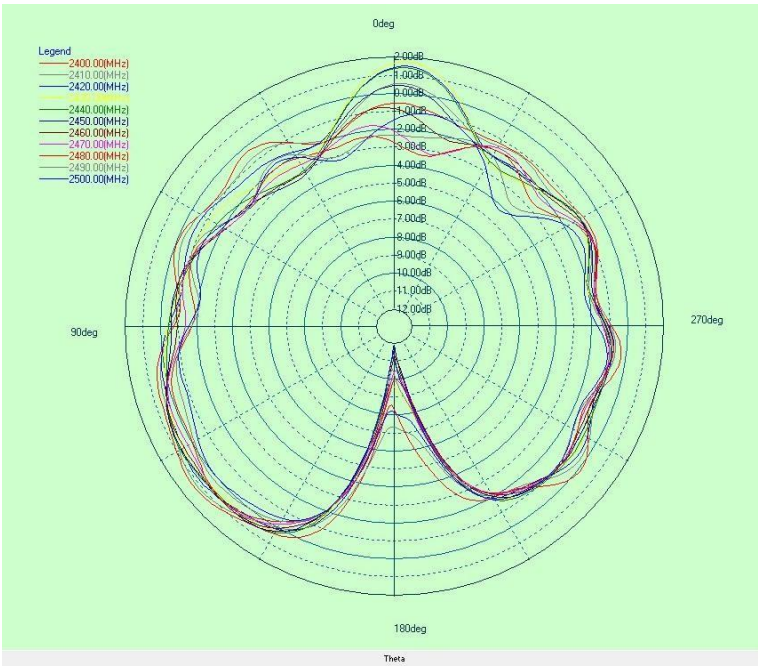
(3) Radiation Pattern



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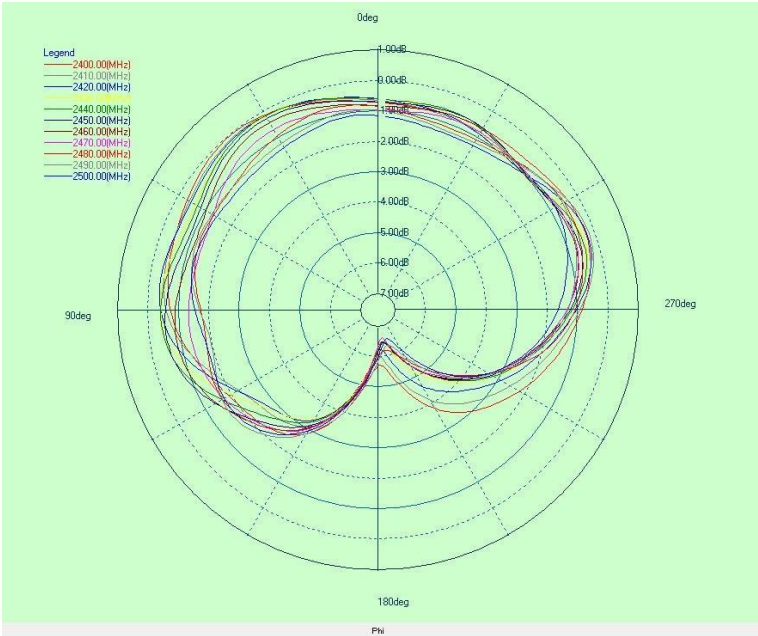


Y-Z Plane



X-Z Plane

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X-Y Plane

Frequency	2400MHz	2450MHz	2490MHz
Avg. gain	1.1	0.80	0.25
Peak gain	2.5	2.5	2.3
Efficiency	61%	54%	51%

● Dependability Test

Test Temperature	25°C±3°C
Operating Temperature	-25°C~+85°C
Temperature	5~+40°C
Relative Humidity	20~70%HR