

2.4GHz 2012 Chip Antenna: ANT2012R2400A1L0

Applications:

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

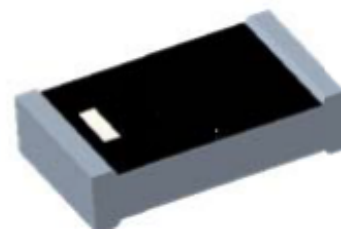
Features

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

Part number

ANT 2012 R 2400 A1 L0
(1) (2) (3) (4) (5) (6)

(1) Product code	Chip Antenna
(2) Size Code	2.0x1.2mm
(3) Packing	Tape and reel
(4) Frequency	2.4GHz
(5) Series	A1
(6) Type	L0

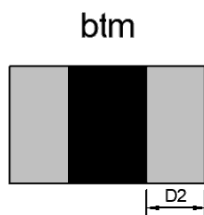
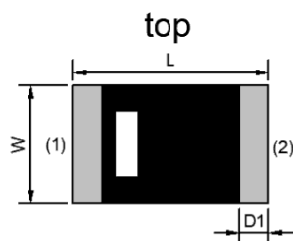


Electrical Specification

Working Frequency Range	2400 ~2484 MHz
Peak Gain	1.01 dBi (Typ.)
Impedance	50 Ohm
VSWR	2.5 (Max)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Operation Temperature(°C)	-40~85°C

The specification is defined on EVB.

Dimension and Terminal Configuration



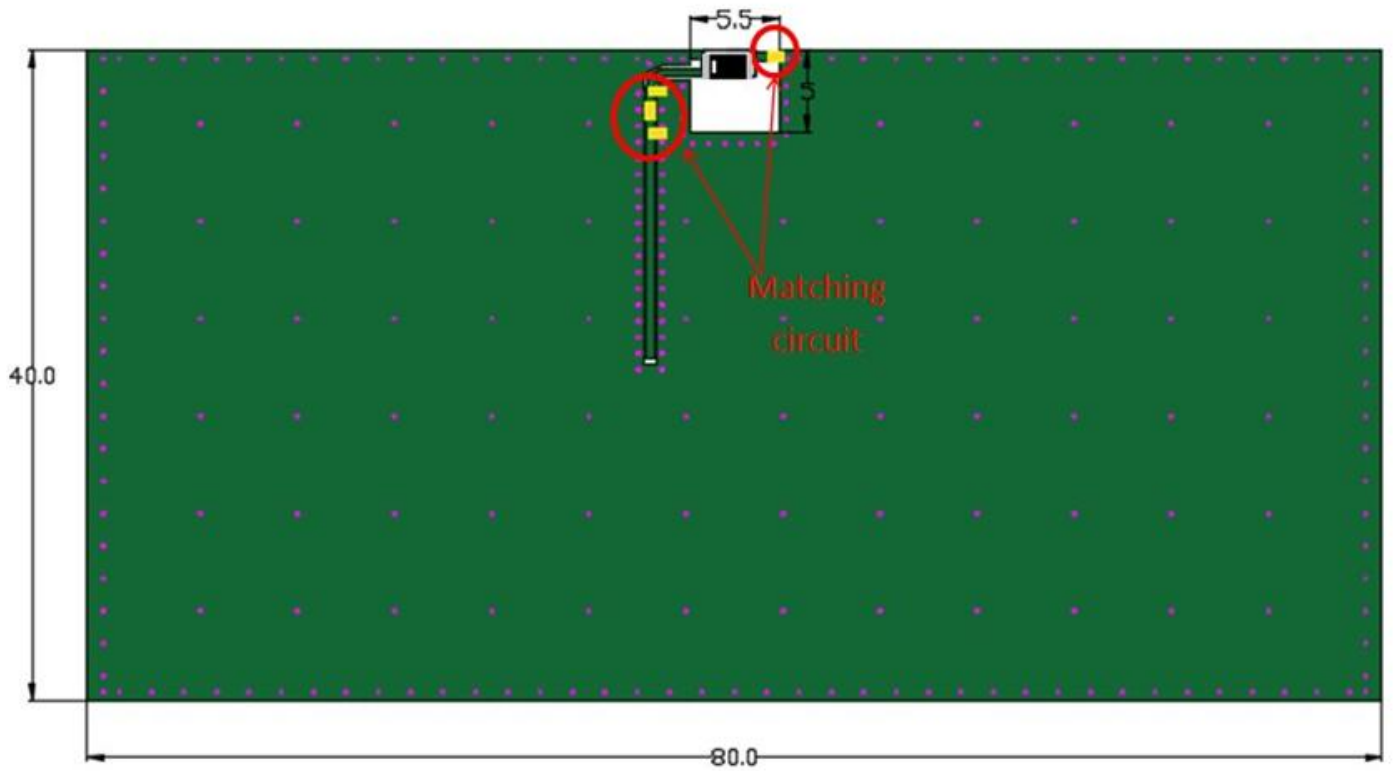
Dimension (mm)	
L	2.00±0.15
W	1.20±0.15
T	0.50±0.10
D1	0.30±0.15
D2	0.60±0.15

No.	Terminal Name
1	Feeding
2	GND

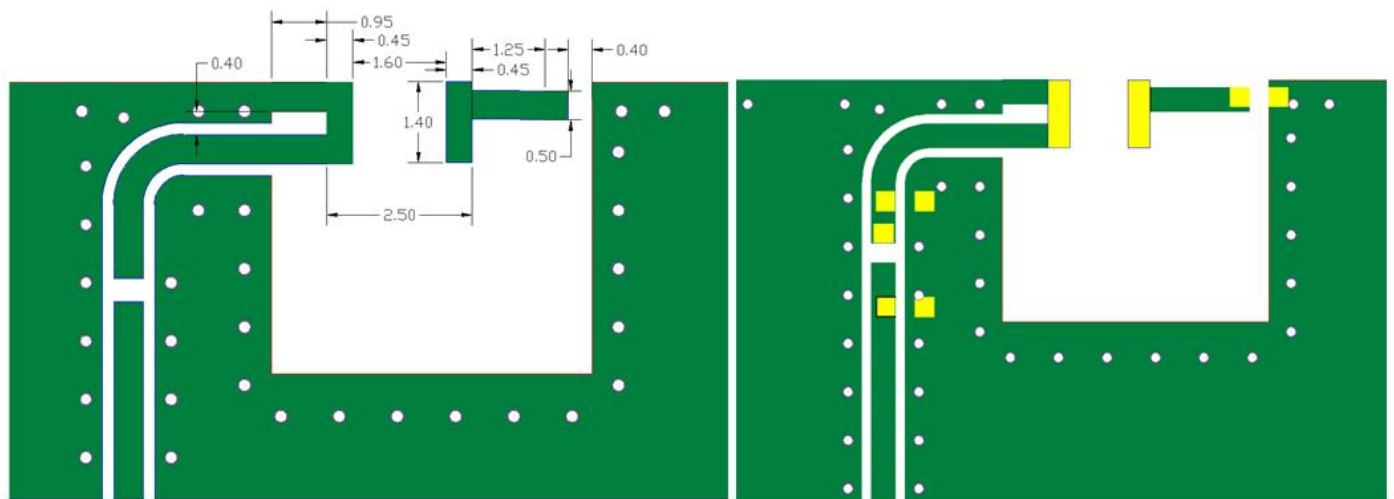
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Evaluation Board Reference

PCB Dimension



Antenna Layout Reference



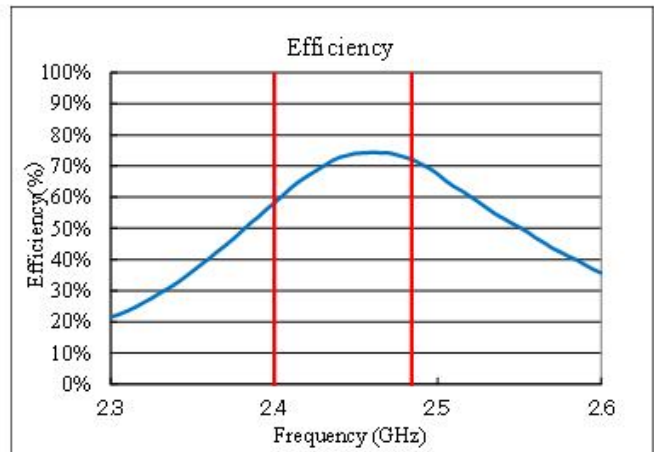
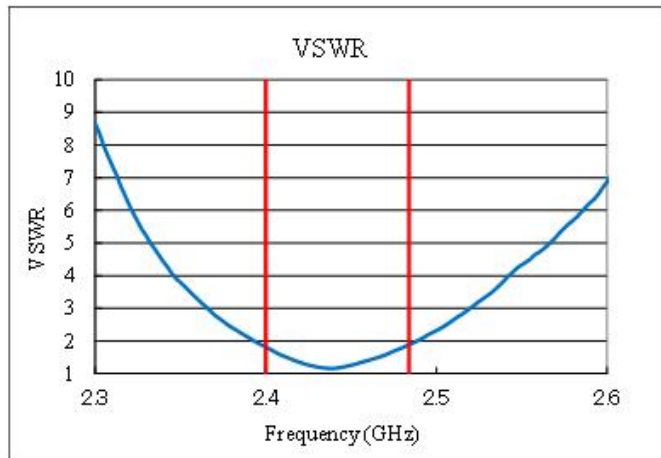
Unit : mm

 : Chip Antenna

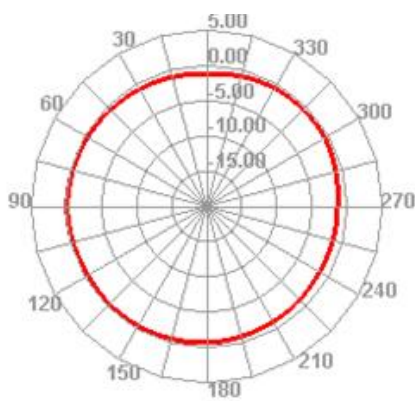
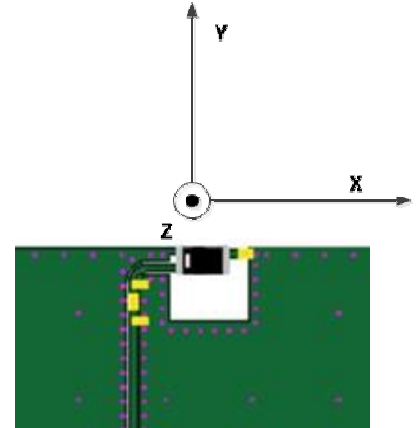
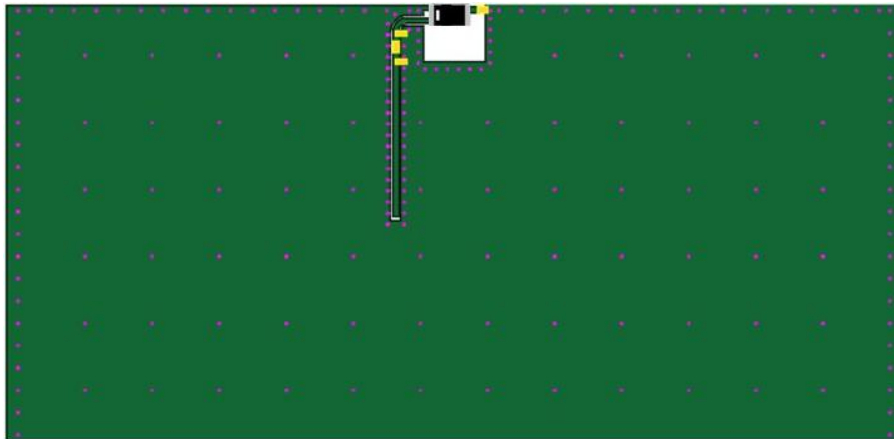
 : Land Pattern

Electrical Characteristics

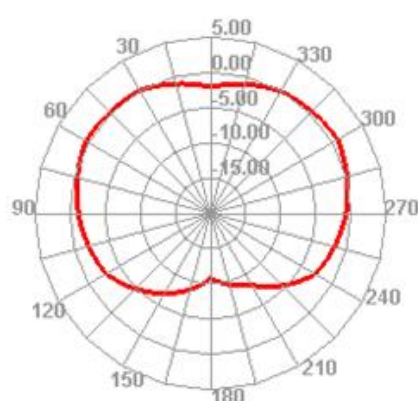
VSWR & Efficiency



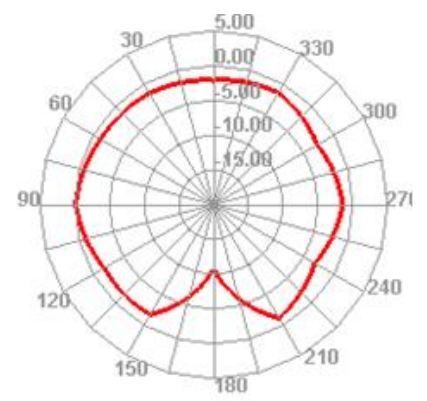
Radiation Pattern



XZ plane



XY plane

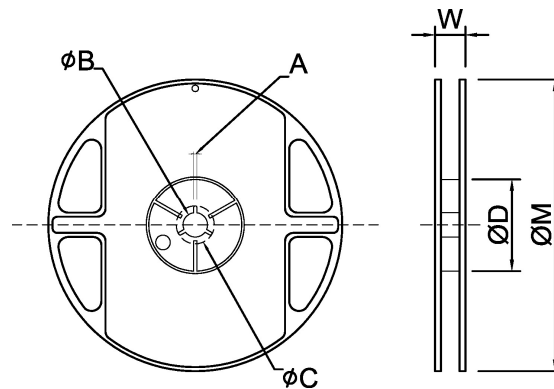


YZ plane

Taping Specifications

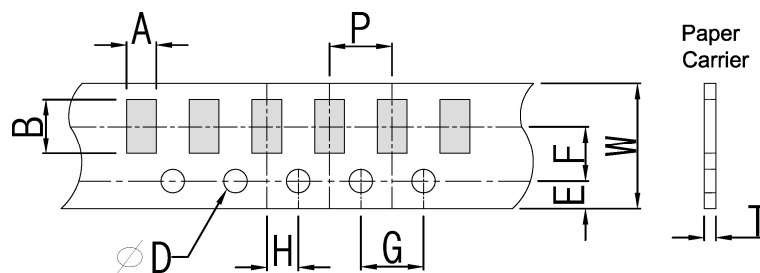
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	ψB	ψC	ψD	W	ψM
2012	7"	5K/Reel	2.0 ± 0.5	13.5 ± 1.0	21 ± 1.0	60 ± 1.0	11.5 ± 2.0	178 ± 2.0

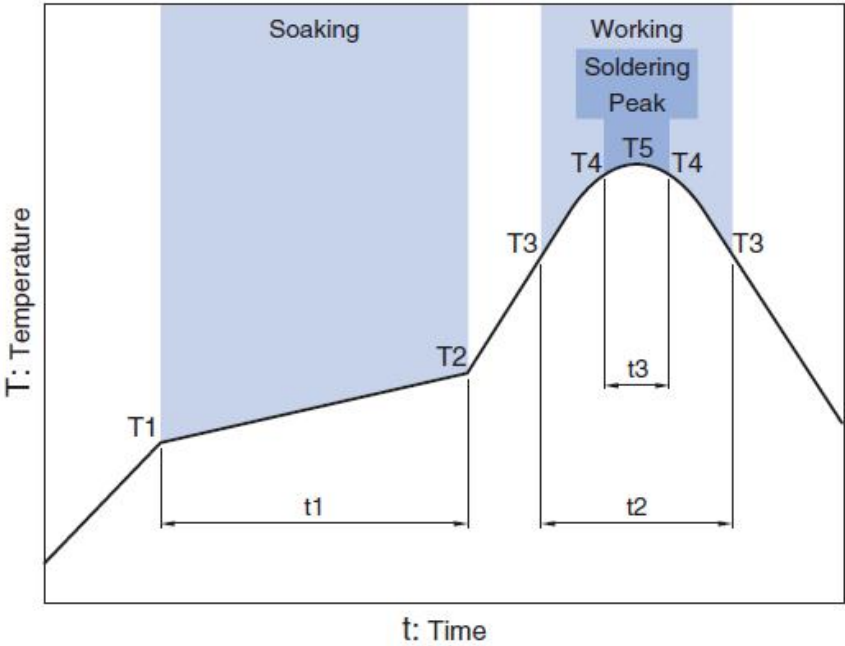
Taping Specification



Packaging	Type	A	B	W	E	F	G	H	T	ψD	P
Paper Type	2012	1.50 ± 0.20	2.20 ± 0.20	8.0 ± 0.20	1.75 ± 0.10	3.5 ± 0.05	4.0 ± 0.10	2.0 ± 0.05	0.80 ± 0.10	1.50 ± 0.10	4.0 ± 0.1

Recommended Reflow Profile

Pb free solder



Soaking			Working		Soldering		Peak
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

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