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东莞市合康电子有限公司

Dongguan Hekang Electronic co., LTD

Chip Antenna

承认书

客户接受

This Specifications is received

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接受日 DATE:

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## 2.4GHz 2012 Chip Antenna: ANT2012R24005KL0

### Applications:

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

### Features

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



### Part number

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

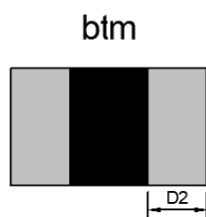
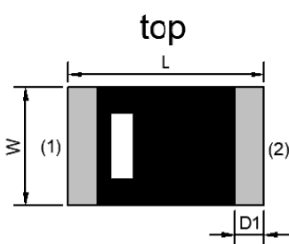
(1) Size Code	2.0x1.2mm
(2) Packing	Tape and reel
(3) Frequency	2.4GHz
(4) Packing Number	5K
(5) Code	L0

### 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

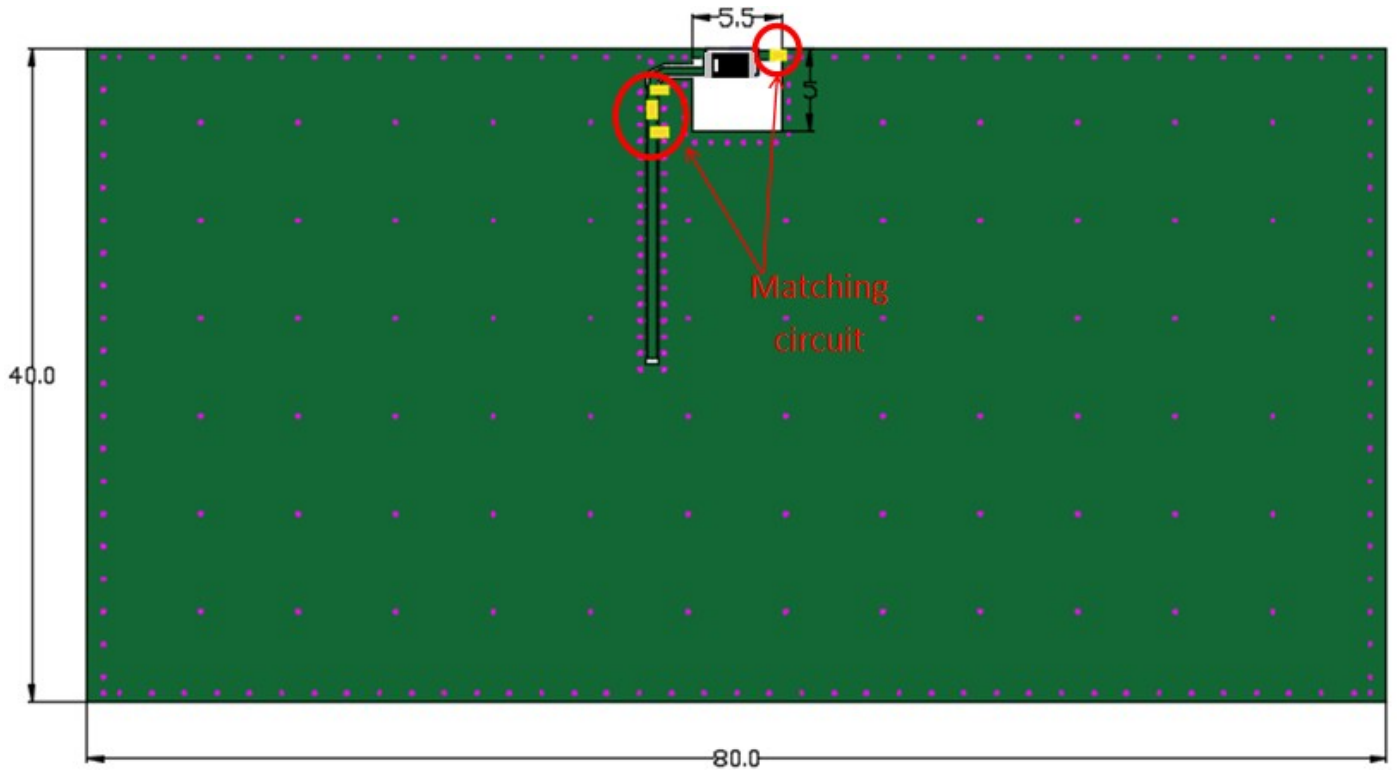


Dimension (mm)	
L	2.00±0.15
W	1.20±0.15
T	0.50±0.10
D1	0.30±0.15
D2	0.60±0.15

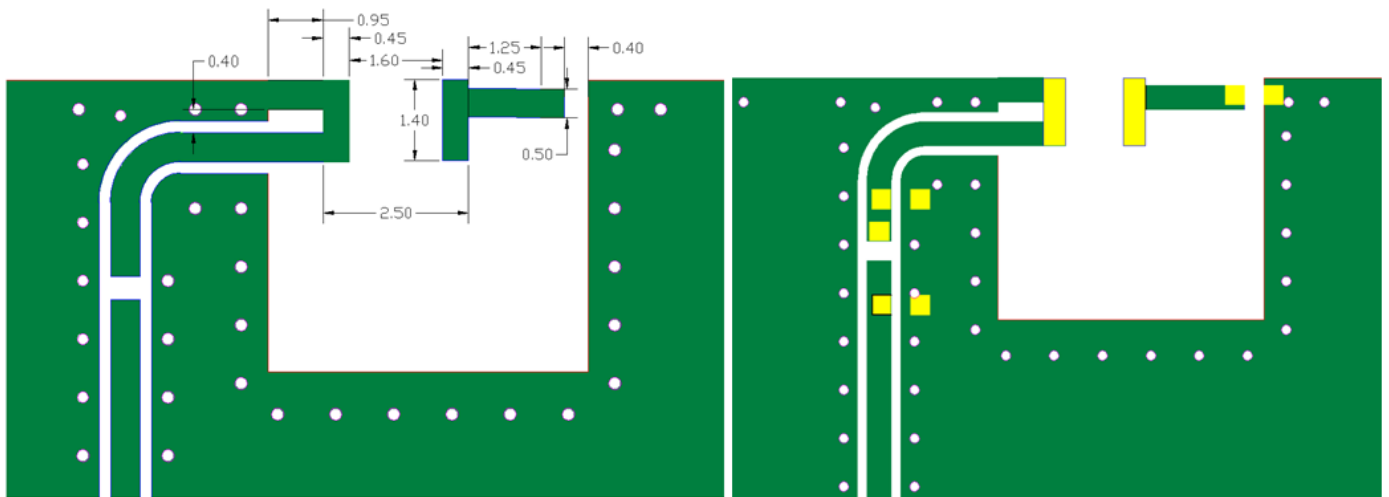
No.	Terminal Name
1	Feeding
2	GND

Evaluation Board Reference

PCB Dimension



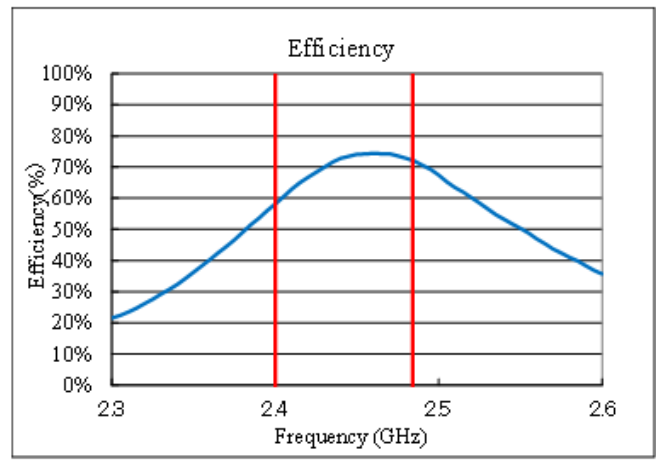
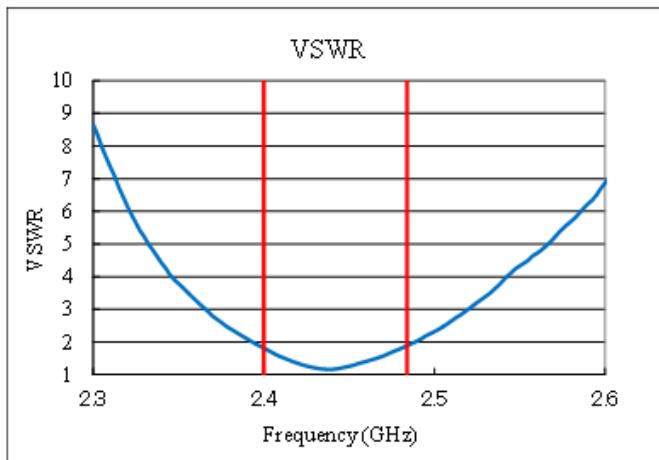
Antenna Layout Reference



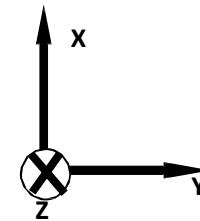
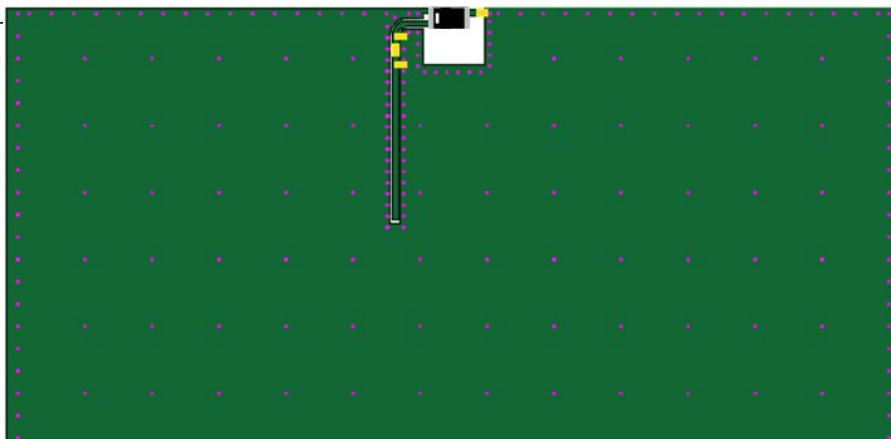
Unit : mm

**Electrical Characteristics**

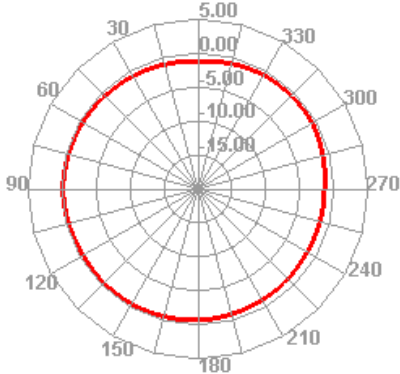
**VSWR&Efficiency**



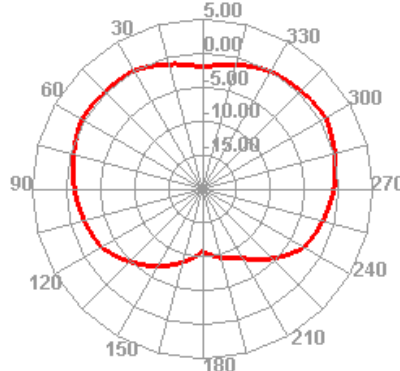
**Radiation Pattern**



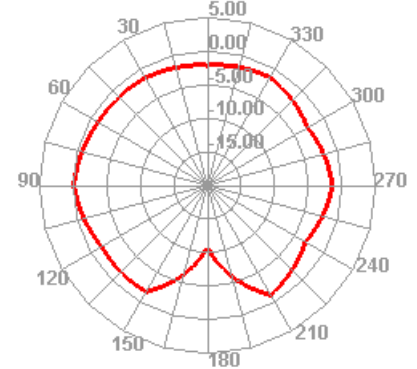
2441.000MHz H



2441.000MHz E1



2441.000MHz E2

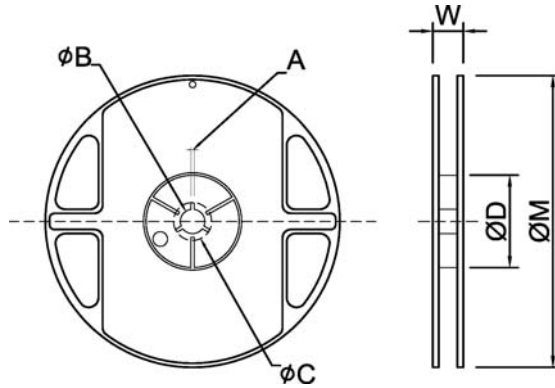


Frequency (MHz)	2400	2450	2480
Peck Gain (dBi)	0.85	1.01	0.82
Efficiency (%)	62.06	72.02	75.01

**Taping Specifications**

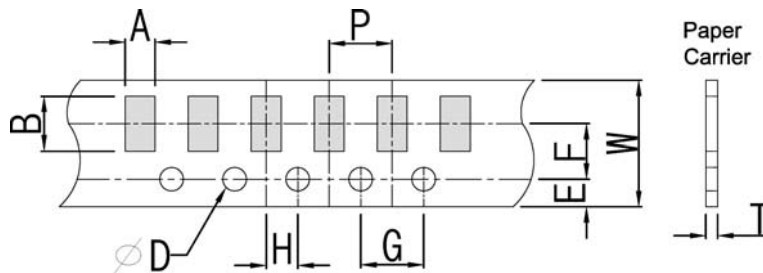
**Reel and Taping Specification**

**Reel Specification**



TYPE	SIZE		A	$\psi B$	$\psi C$	$\psi D$	W	$\psi M$
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

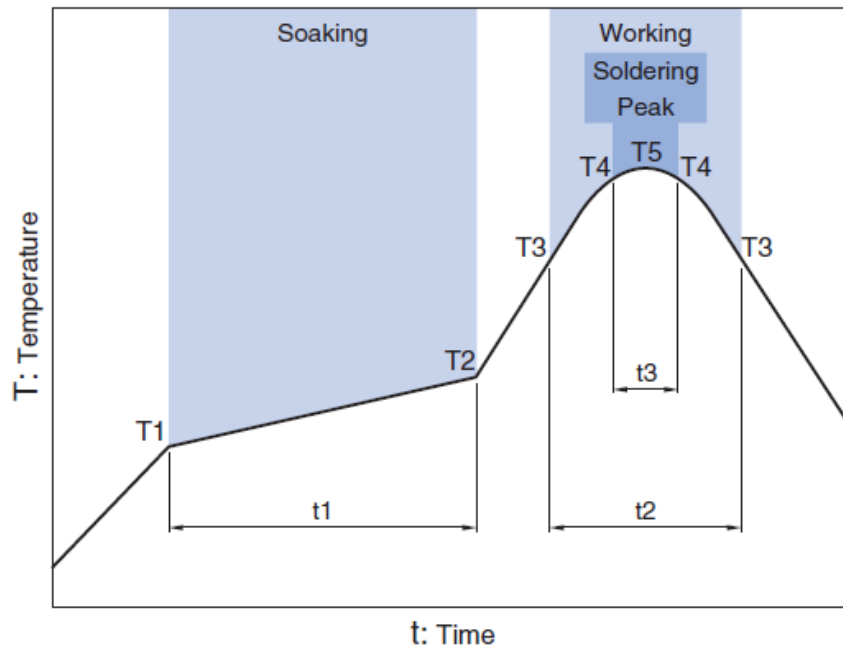
**Tapping Specification**



Packaging	Type	A	B	W	E	F	G	H	T	$\psi D$	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 -0	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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