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生效日期Effective Date: 20240202001

东莞市合康电子有限公司

Dongguan Hekang Electronic co., LTD

Chip Antenna

承 认 书

客户名称: 惠州今科电子有限公司 Customer name: Huizhou JoneTech Electronic Co.,LTD	制造商 : 东莞市合康电子有限公司 Manufacturer: Dongguan Hekang Electronics Co., Ltd.
客户料号 Customer part number: D00FPE321600	产品型号 Product number: 2.4GHz 3216 Chip Antenna
部 品 名: 陶瓷天线 Product Name: Chip Antenna	产品料号 Product part number: ANT3216R2400A1L0 版本 Version: A01

客户接受

This Specifications is received

签 章 SIGN:

接受日 DATE:

拟 制 Drawn by	审 核 Checked by	批 准 Approved by
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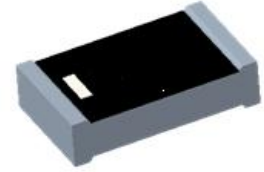
2.4GHz 3216 Chip Antenna: ANT3216R2400A1L0

Application:

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

Features

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



Part number

ANT 3216 R 2400 A1 L0
(1) (2) (3) (4) (5) (6)

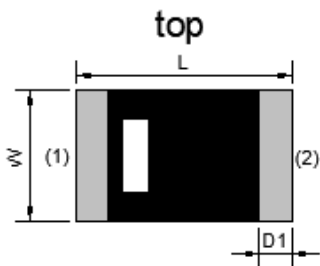
(1) Product Code	Chip Antenna
(2) Size Code	3.2x1.6mm
(3) Packing	Tape and reel
(4) Frequency	2.4GHz
(5) Series	A1
(6) Type	L0

Electrical Specification

Working Frequency Range	2400 ~2484 MHz
Peak Gain	1.08dBi (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 HEK EVB.

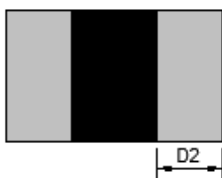
Dimension and Terminal Configuration



Dimension (mm)	
L	3.20+/-0.15
W	1.60+/-0.15
T	0.60+/-0.10
D1	0.50+/-0.15
D2	1.30+/-0.15

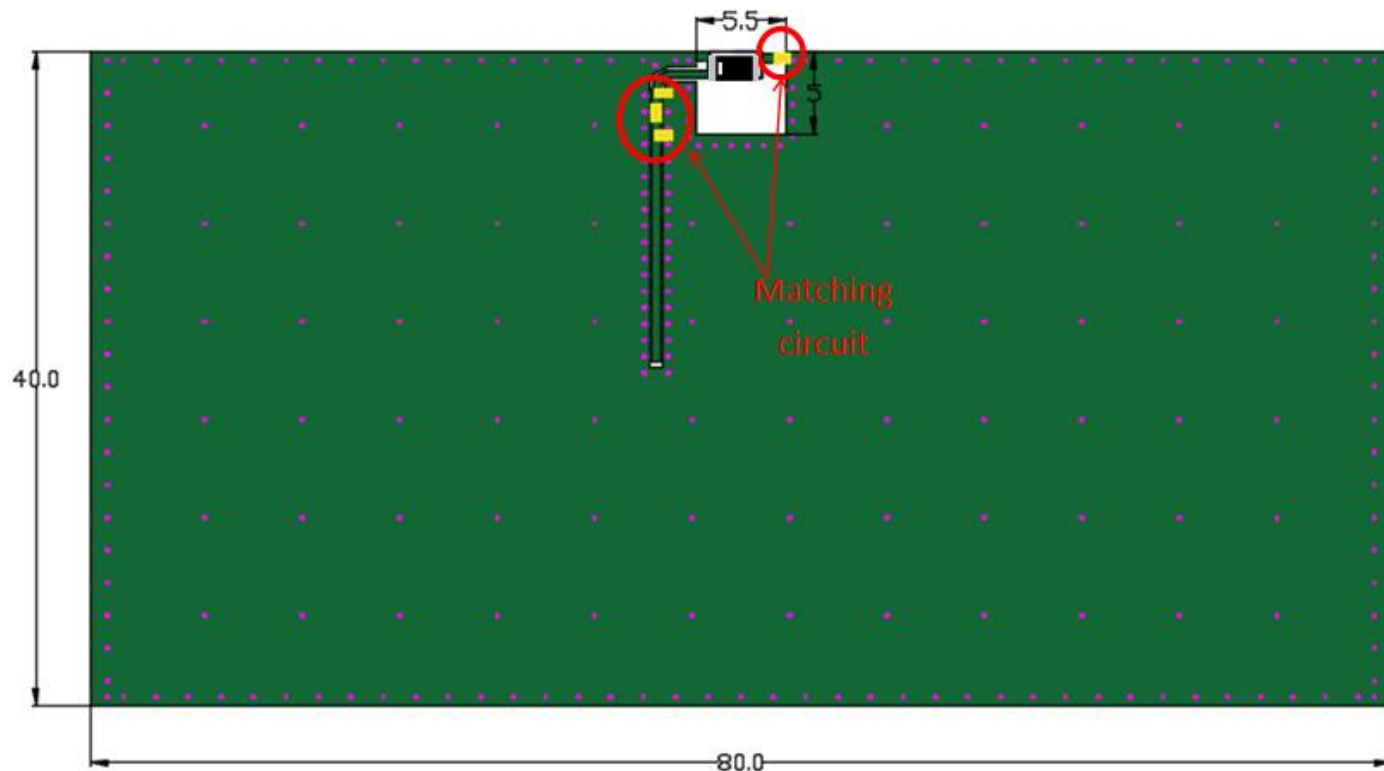
No.	Terminal Name
1	Feeding
2	Ground

btm

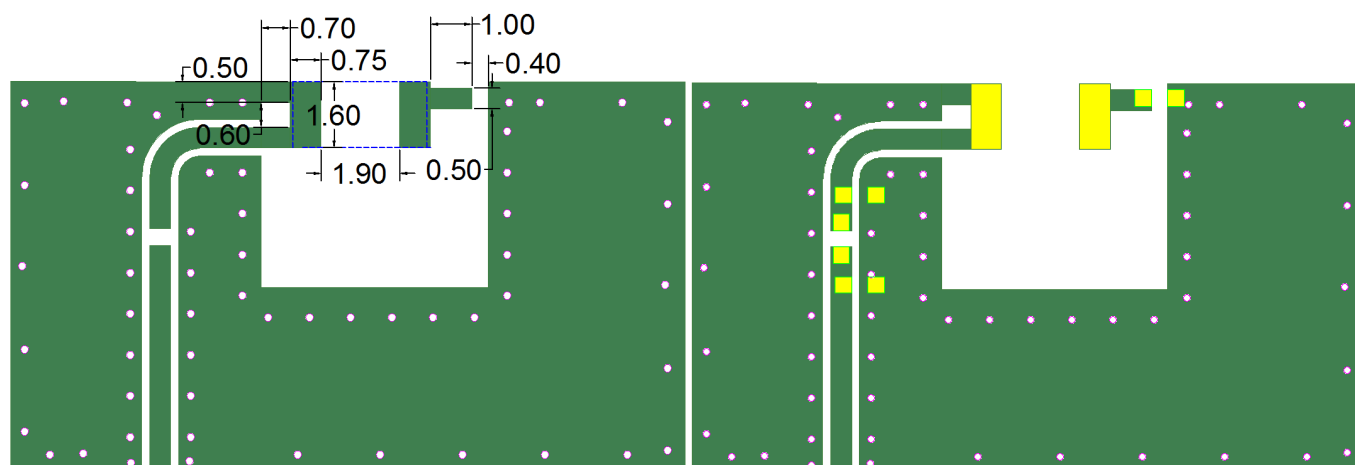


Evaluation Board Reference

PCB Dimension



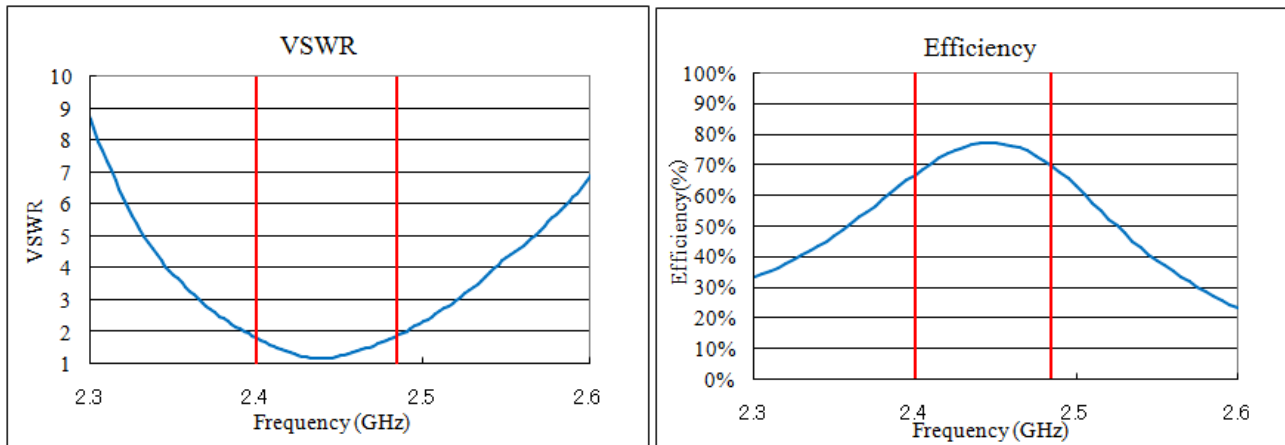
Antenna Layout Reference



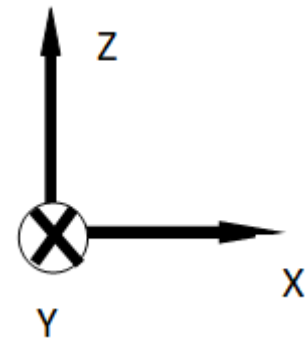
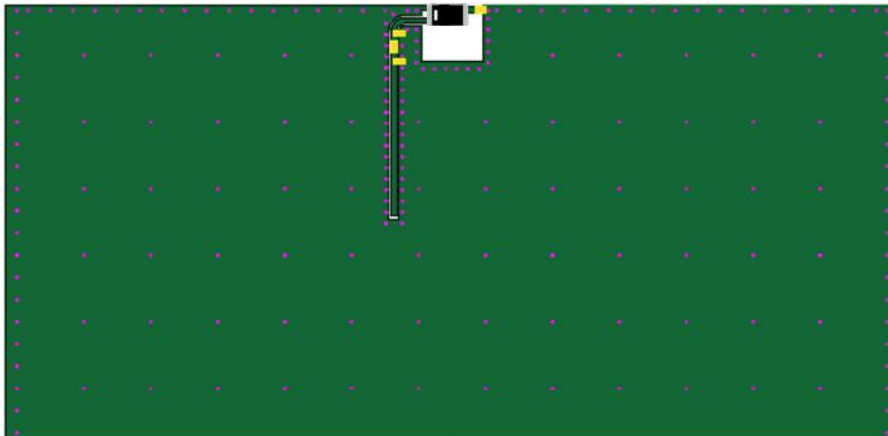
Unit : mm

Electrical Characteristics

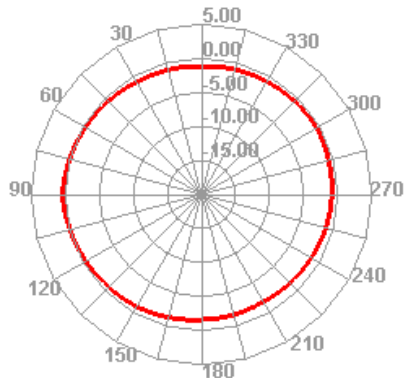
VSWR



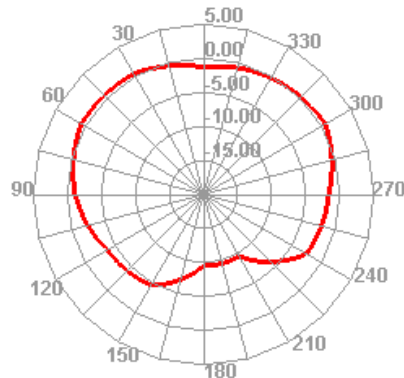
Radiation Pattern



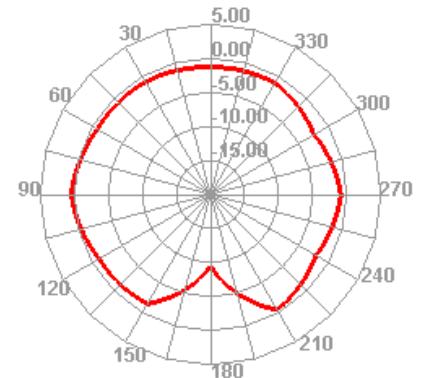
2441.000MHz H



2441.000MHz E1



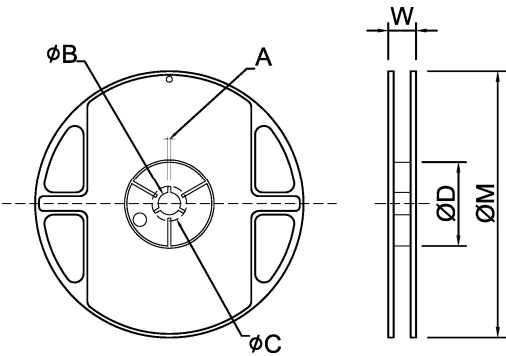
2441.000MHz E2



Taping Specifications

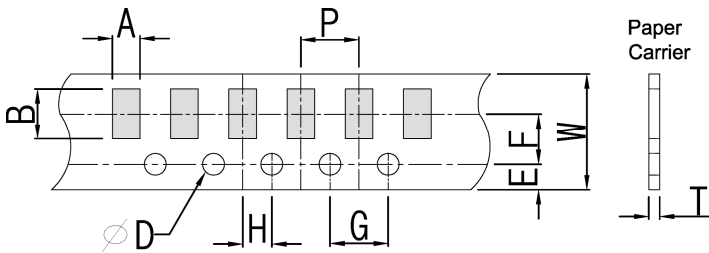
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	ψB	ψC	ψD	W	ψM
3216	7"	3K/Reel	2.0 ± 0.5	13.5 ± 1.0	21 ± 1.0	60 ± 1.0	11.5 ± 2.0	178 ± 2.0

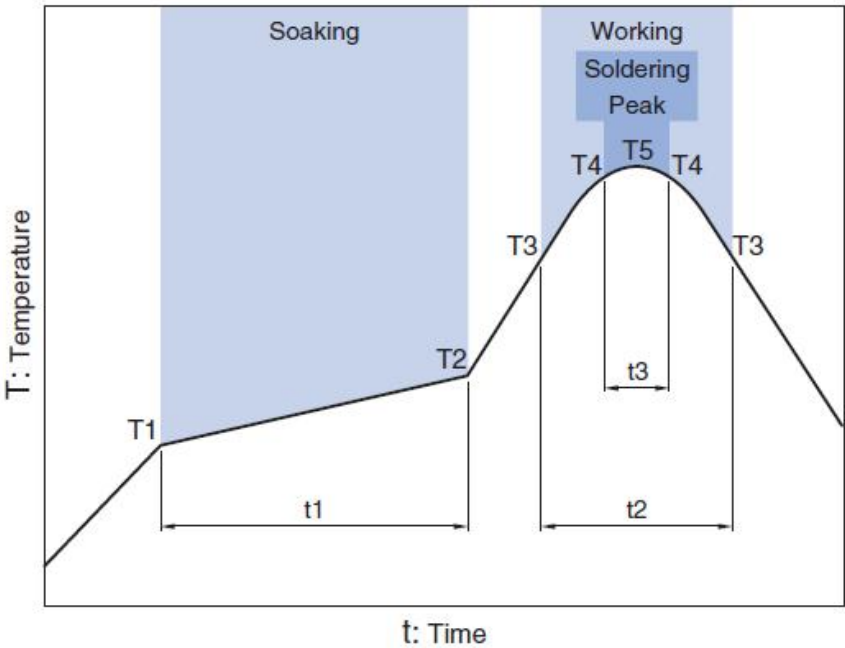
Taping Specification



Packaging	Type	A	B	W	E	F	G	H	T	ψD	P
Paper Type	3216	1.90 ± 0.20	3.50 ± 0.20	8.0 ± 0.20	1.75 ± 0.10	3.5 ± 0.05	4.0 ± 0.10	2.0 ± 0.05	0.75 ± 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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