

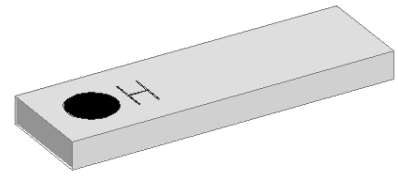
900MHz 1204Chip Antenna: ANT1204R0900A1M1

Application:

GSM · IoT , RFID , etc...

Features

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



Part number

ANT 1204 R 0900 A1 M1
(1) (2) (3) (4) (5) (6)

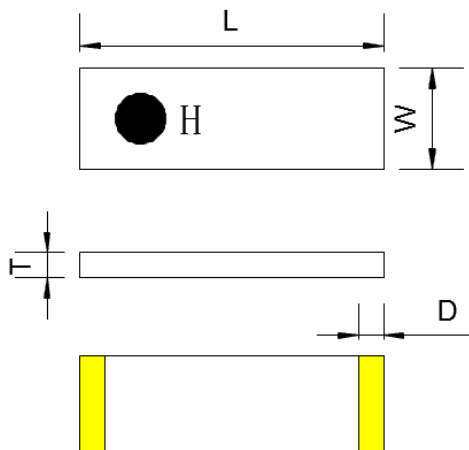
(1) Product Code	Chip Antenna
(2) Size Code	12.0x4.0mm
(3) Packing	Tape and reel
(4) Frequency	900MHz
(5) Series	A1
(6) Type	M1

Electrical Specification

Working Frequency Range	885~915 MHz
Peak Gain	0dBi(Typ.)
Impedance	50 Ohm
VSWR	2.5(Max)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Operation Temperature	-40~85℃

The specification is defined on HEK EVB.

Dimension and Terminal Configuration



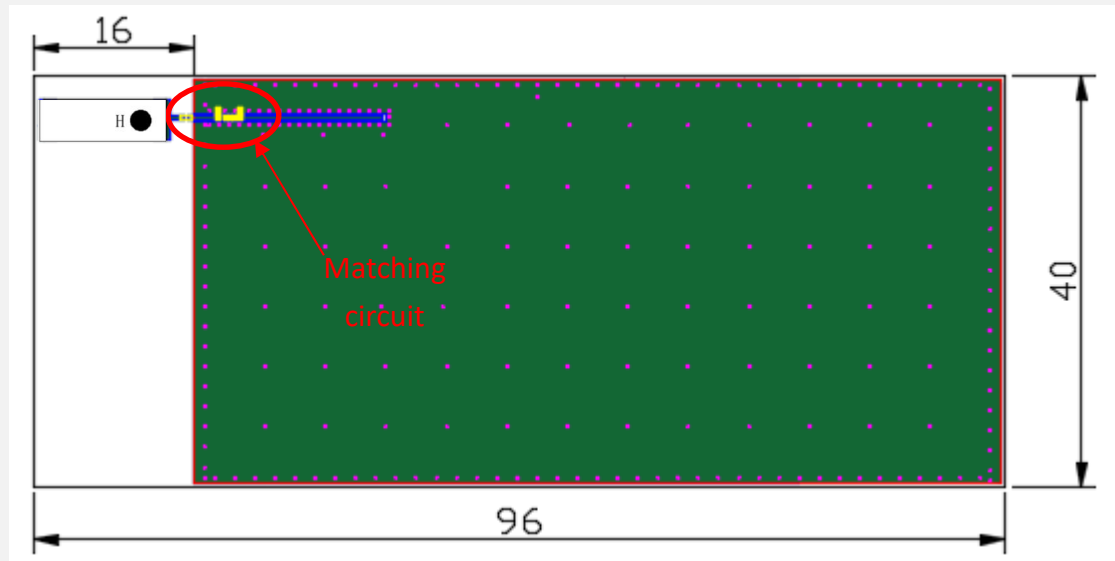
Dimension (mm)	
L	12.0+-0.15
W	4.0+-0.15
T	1.0+-0.10
D	1.0+-0.15

No.	Terminal Name
1	Feeding
2	Soldering

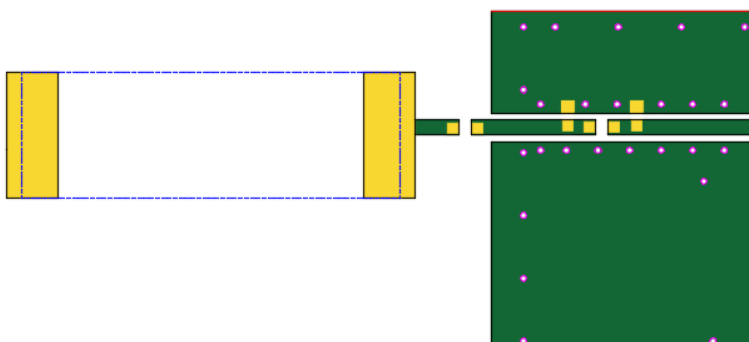
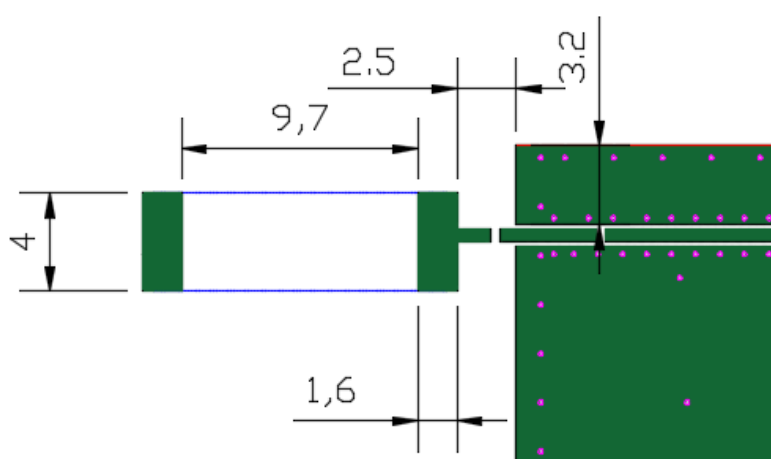
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Evaluation Board Reference

PCB Dimension



Antenna Layout Reference



Unit : mm

 : Chip Antenna

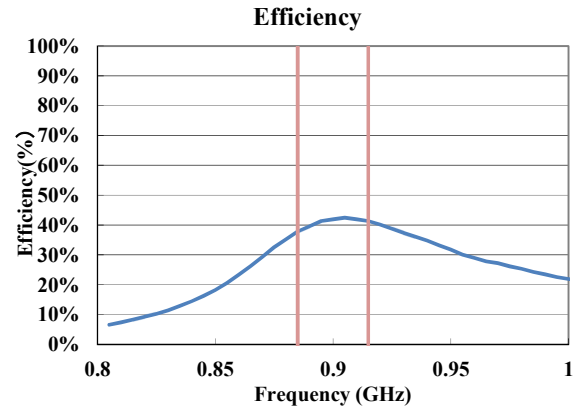
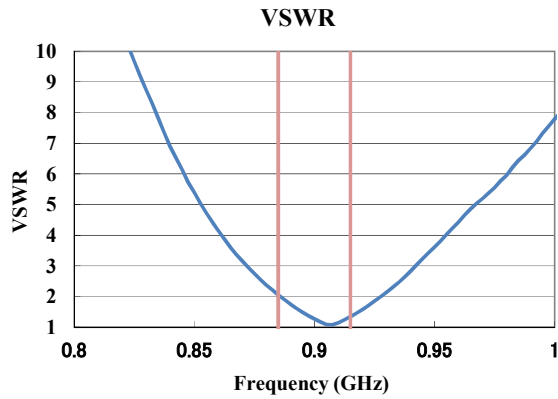
 : Land Pattern

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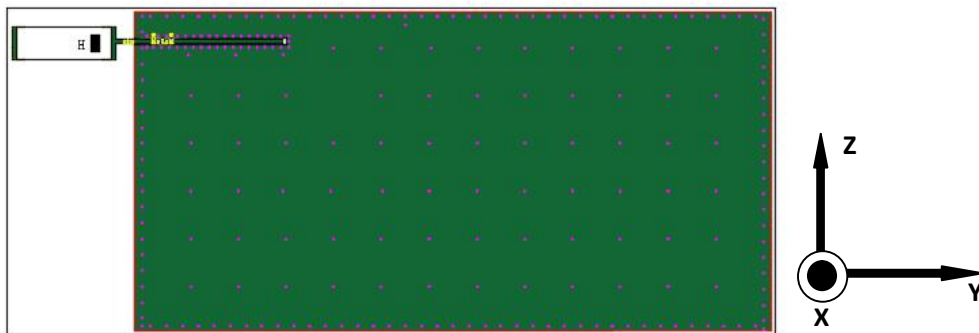
Electrical Characteristics

VSWR & Radiation

VSWR&Efficiency

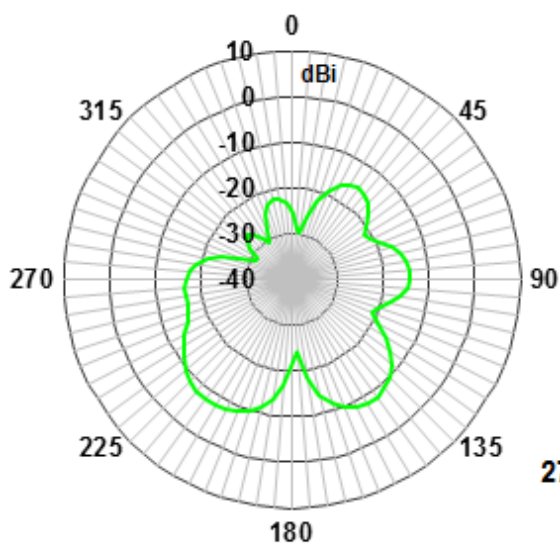


Radiation Pattern

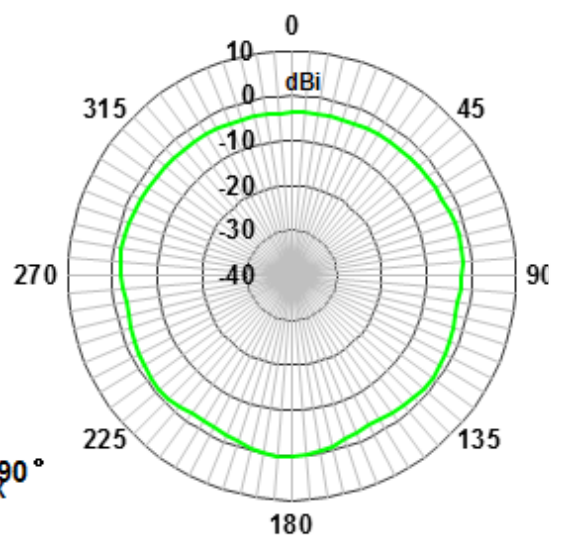


Frequency=900MHz

ZX-Plane

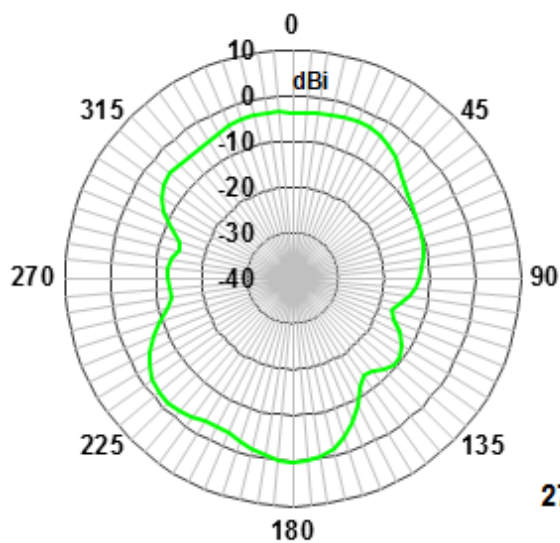


Horizontal Polarization

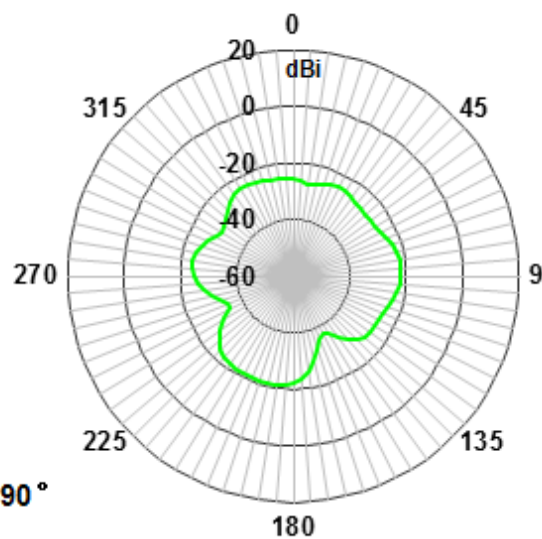
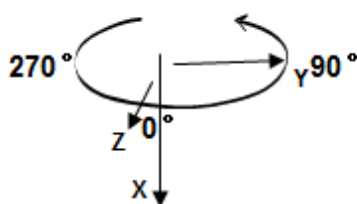


Vertical Polarization

ZY-Plane

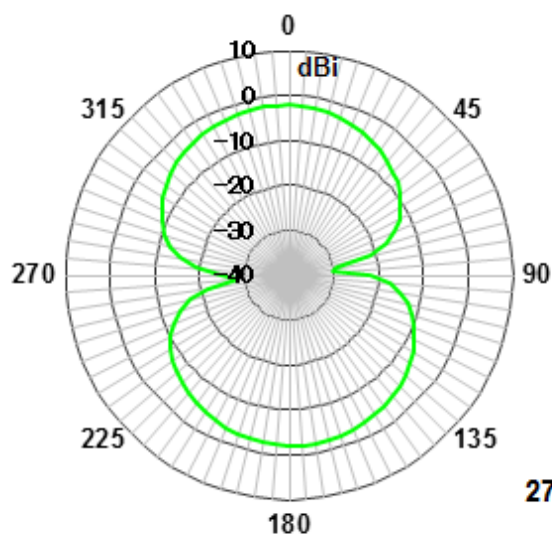


Horizontal Polarization

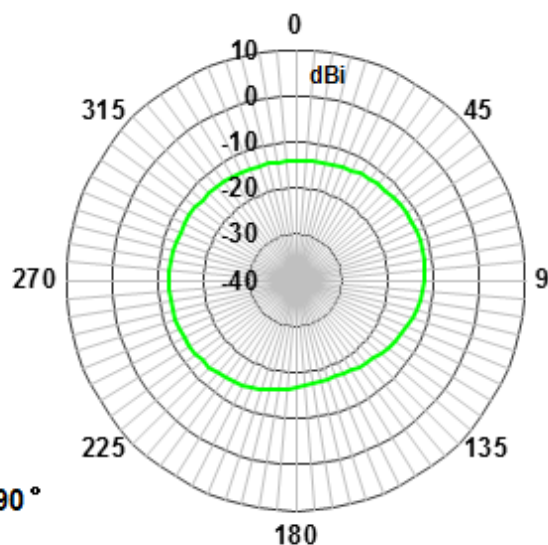
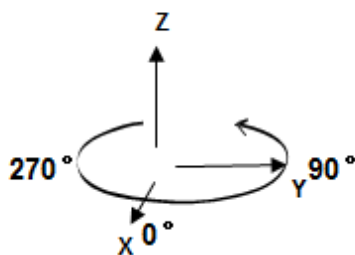


Vertical Polarization

XY-Plane



Horizontal Polarization



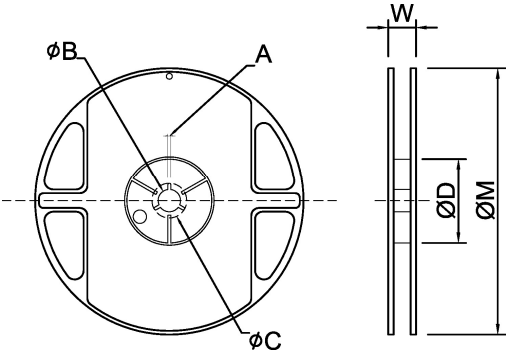
Vertical Polarization

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Taping Specifications

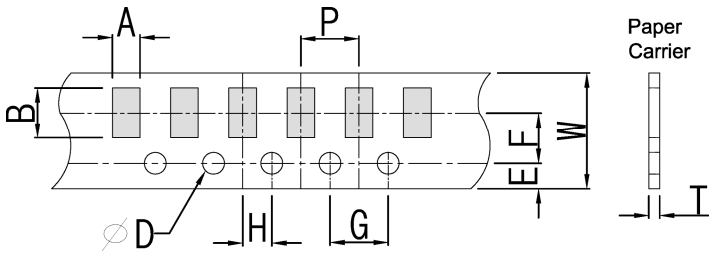
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	ψB	ψC	ψD	W	ψM
1204	7"	1K/Reel	3.2 ± 0.5	13.0 ± 1.0	15.3 ± 1.0	67 ± 1.0	28.5 ± 2.0	178 ± 2.0

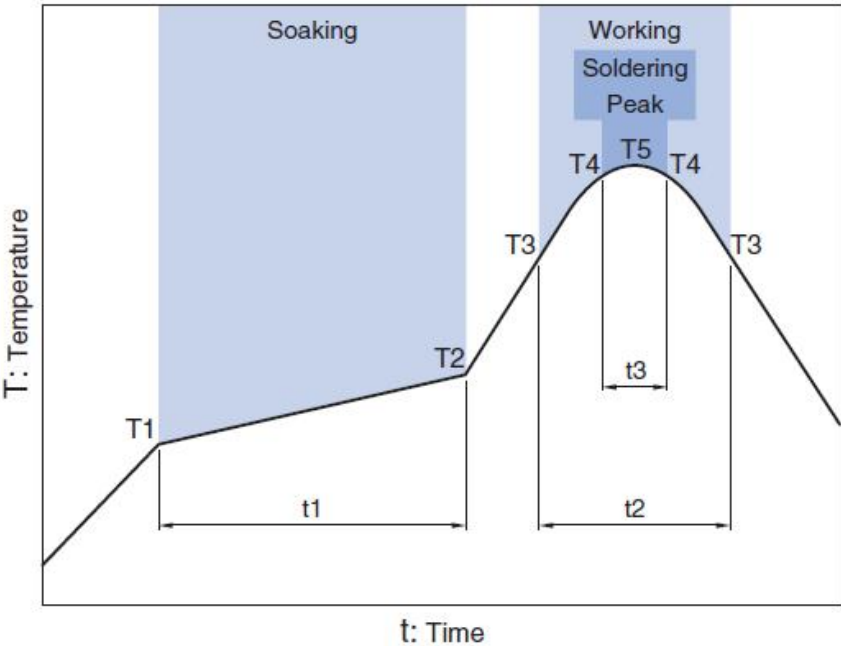
Taping Specification



Packaging	Type	A	B	W	E	F	G	H	T	ψD	P
Paper Type	1204	4.30 ± 0.20	12.30 ± 0.20	24.0 ± 0.20	1.75 ± 0.10	11.5 ± 0.05	4.0 ± 0.10	2.0 ± 0.05	1.10 ± 0.10	1.50 ± 0.10	8.0 ± 0.1

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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.