

Series : Chip Antenna

Description: Monopole GPS, BT, WiFi

PART NUMBER: W3043

Features:

- Multipurpose for various frequency applications
 - Option 1: GPS 1.575GHz
 - Option 2: WiFi 2.4-2.485GHz
- Compact size W x L x H:

(3.2 x 1.6 x 1.1 mm)

- Low weight (33 mg)
- Fully SMD compatible
- Tape and reel packing

Applications:

- GPS
- Bluetooth, WLAN, WiFi, BLE
- IEEE 802.11a/b/g/n
- ZigBee IEEE 802.15.4
- 2.4 GHz ISM Band Systems



All dimensions are in mm / inches

Issue: 1920

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ELECTRICAL SPECIFICATIONS

Polarization	Vertical
Efficiency	38 / 45 %
Gain	2.1 / 4.5 dBi
Return Loss	-15 / -12 dB
Radiation Pattern	Omni
Nominal Impedance	50 Ω
Frequency option2 @ Wifi	2400-2485MHz
Frequency option1 @ GPS	1565-1585MHz
Antenna Type	Monopole

Size	3.2 x 1.6 x 1.1 mm
Weight	0.03 g
MSL (Moisture Sensitivity Level)	1

ENVIRONMENTAL SPECIFICATIONS		
Operating Temperature	-40~85 °C	
Storage Temperature	-40~85 °C	
RoHS Compliant	Yes	

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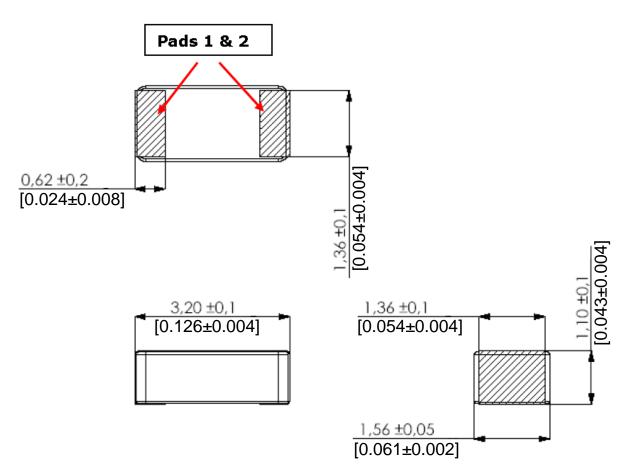


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MECHANICAL DRAWING AND TERMINAL CONFIGURATION



Antenna features		
No.	Terminal Name	Terminal Dimensions
1	Feed / Support	0.62 x 1.36 mm
2	Feed / Support	0.62 x 1.36 mm
Antenna is symmetrical. Either of terminals 1 or 2 can be Feed / Support		

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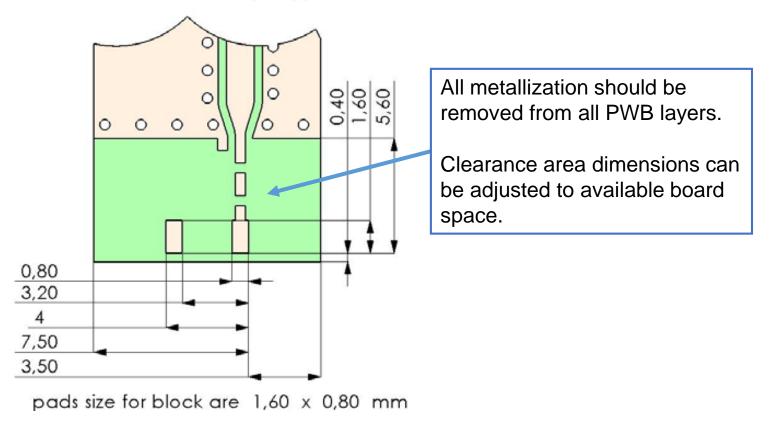
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MECHANICAL DRAWING AND TERMINAL CONFIGURATION

1. GROUND CLEARANCE AREA

Pad dimensions in top copper



PWB manufacturing requirements according to IPC-A-600 revision G or similar.

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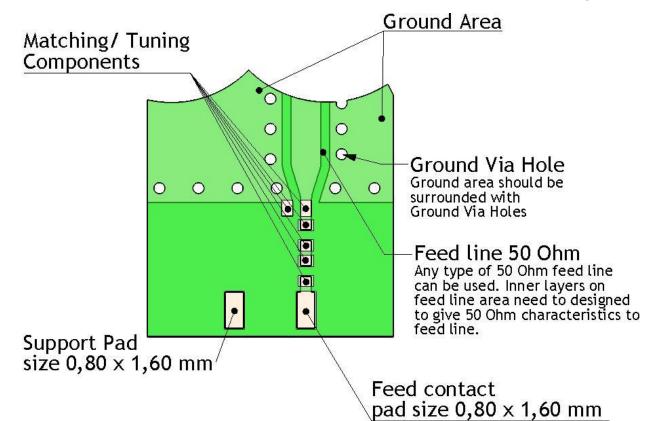
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MECHANICAL DRAWING AND TERMINAL CONFIGURATION

2. MATCHING/TUNING COMPONENTS

Component values depend on used ground clearance area and other device mechanics.

Copper extension on board can be used for frequency fine tuning.



PWB features		
No.	Terminal Name	Terminal Dimensions
1	Feed	0.8 x 1.60 mm
2	Mech support pad	0.8 x 1.60 mm

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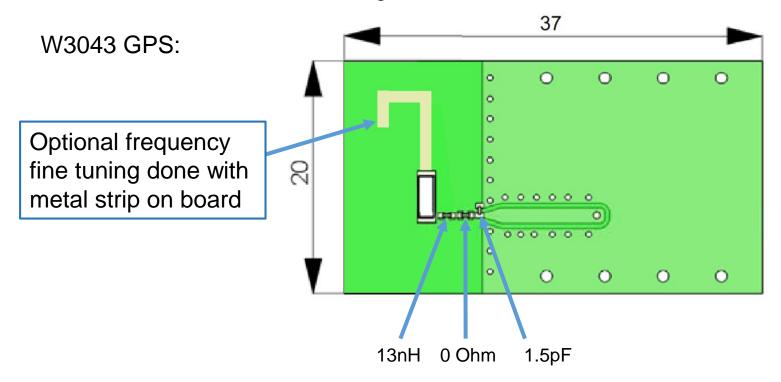
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MECHANICAL DRAWING AND TERMINAL CONFIGURATION

3.TYPICAL ELECTRICAL CHARACTERISTICS(T=25 °C) Measured on 37x20mm test board, ground clearance area 12x20mm



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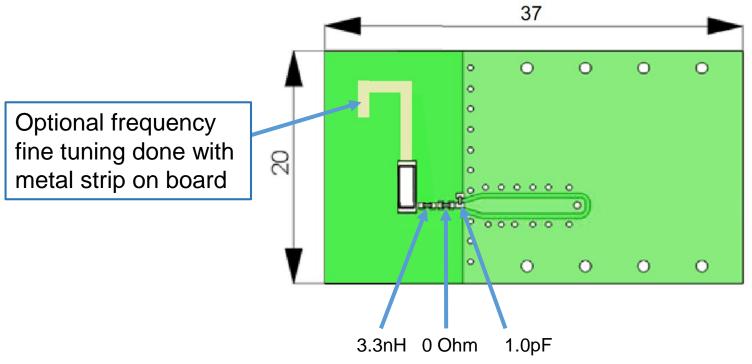
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MECHANICAL DRAWING AND TERMINAL CONFIGURATION

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W3043 BT, WLAN, WiFi 2.4GHz:



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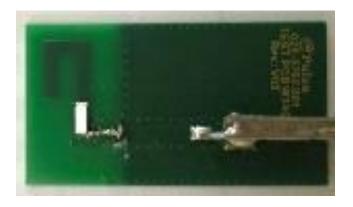
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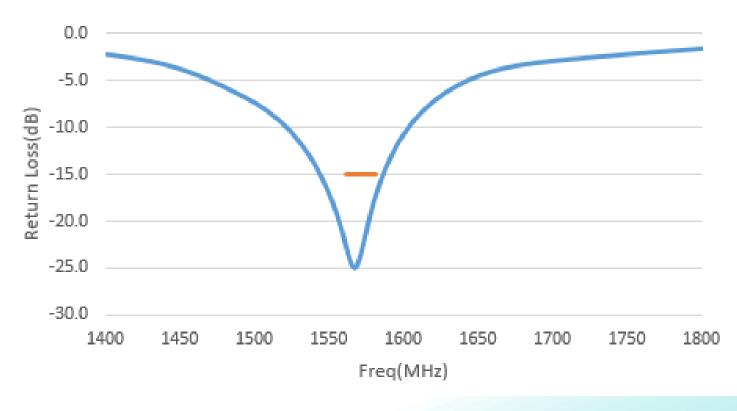
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CHARTS

Test set up



Return Loss @ GPS



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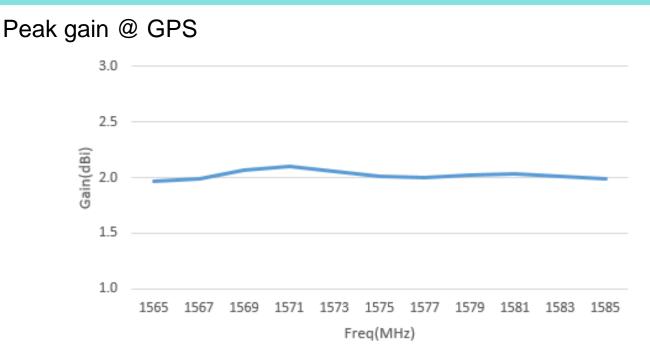


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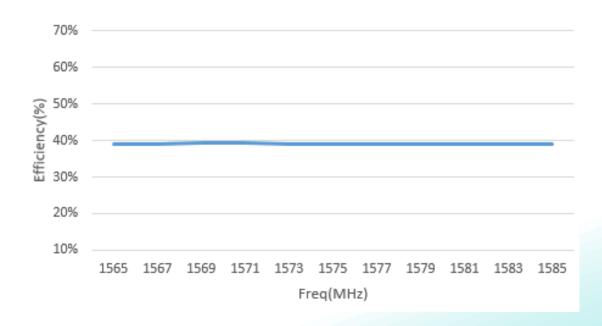
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CHARTS



Efficiency @ GPS



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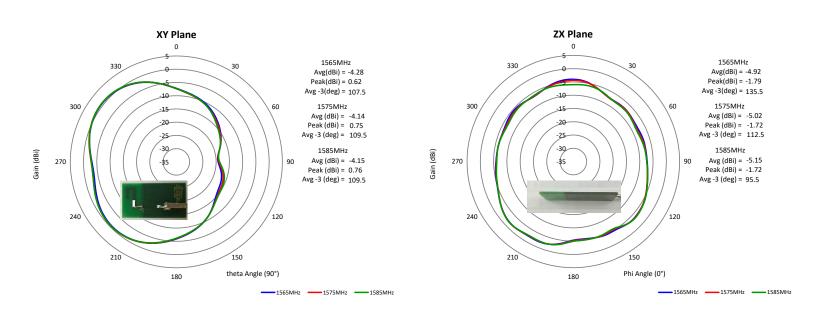
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CHARTS

Radiation pattern @ GPS



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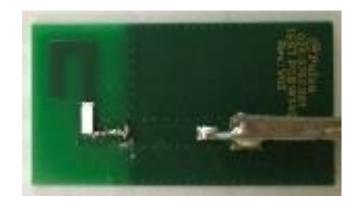
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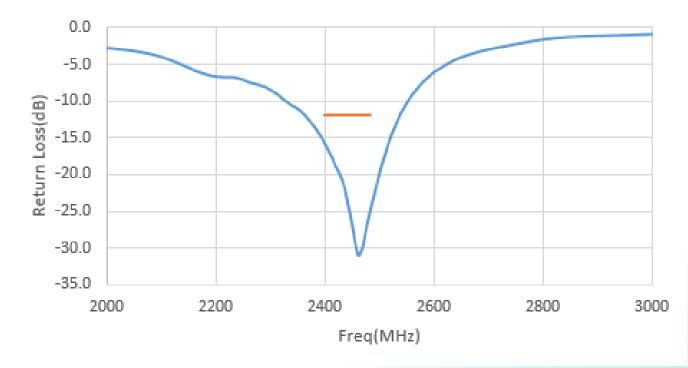
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CHARTS

Test set up



Return Loss @ Wifi



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ROHS 11



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70% 60% 50% 40% 20% 20% 10% 20% 10% 20% Freq(MHz)

Efficiency @ Wifi

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RoHS



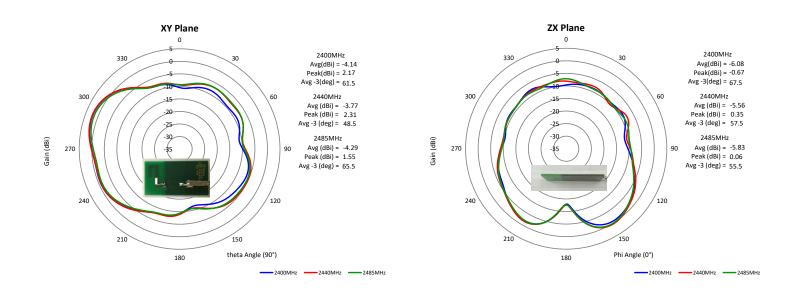
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Recommendation for reflow soldering process

	Method of heat transfer	Controlled hot air convection
1	Average temperature gradient in preheating	2.5 °C/s
2	Soak time	2-3 minutes
3	Max temperature gradient in reflow	3 °C/s
4	Time above 217 °C	Max 60 sec
5	Time above 230 °C	Max 50 sec
6	Time above 250 °C	Max 10 sec
7	Peak temperature in reflow	260 °C for 5 seconds
8	Temperature gradient in cooling	Max -5 °C/s

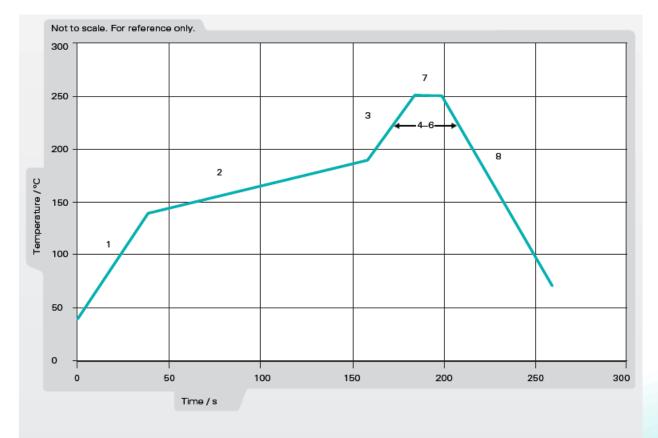


Figure 2. Maximum temperature profile recommendation for reflow soldering process

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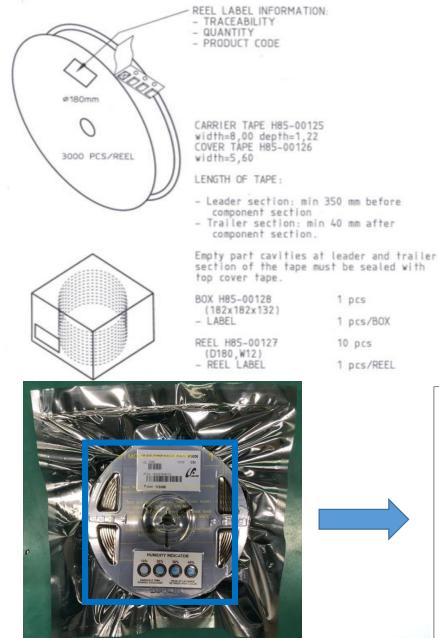
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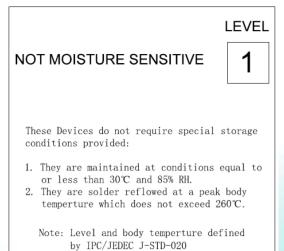
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PACKAGING

Tape and reel packing is used. 3000pcs antenna/reel, 10 reels/inbox, 2 inbox(60000pcs antenna)/outbox.





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