

Description: Bluetooth, WiFi Antenna

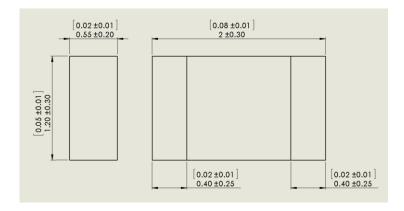
PART NUMBER: W3092

Series: The Blue Dot



Features:

- Chip Antenna
- Frequency: 2400MHz~2483MHz
- Low profile
 2.0mm(Length) x 1.2mm(Width)
 x 0.55mm(Thickness)



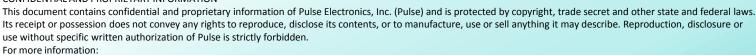
Applications:

- WLAN
- 802.11b/g
- Bluetooth
- Zigbee, ISM 2.4GHz

All dimensions are in mm / inches

Issue: 1612

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



Pulse Worldwide Headquarters 12220 World Trade Drive San Diego, CA 92128 USA Tel:1-858-674-8100 Pulse/Larsen Antennas 3611 NE 112th Ave Vancouver, WA 98682 USA Tel: 1-360-944-7551 Europe Headquarters Pulse GmbH & Do, KG Zeppelinstrasse 15 Herrenberg, Germany Tel: 49 7032 7806 0 Pulse (Suzhou) Wireless Products Co, Inc. 99 Huo Ju Road(#29 Bldg,4th Phase Suzhou New District Jiangsu Province, Suzhou 215009 PR China Tel: 86 512 6807 9998



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ELECTRICAL SPECIFICATIONS

Frequency	2400-2483	MHz
Nominal Impedance	50	Ω
VSWR	3	max
Gain (Typ.)	0.89	dBi
Efficiency(Typ.)	55	%
Polarization		Linear



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MECHANICAL SPECIFICATIONS

Weight 0.005 g

Size 2.0x1.2x0.55 mm

ENVIRONMENTAL SPECIFICATIONS

Operating temperature -40/+105 ° C

High temperature resistance 150 ° C, 1000 hours

Low temperature resistance -40 ° C, 1000 hours

Humidity 85%R.H. 85±5 ° C, 1000 cycles

Soldering heat resistance 260 ° C 10s

Thermal shock -40/+105 ° C

Storage condition

At warehouse 0-30 °C, <60%R.H., shoule be used<1 year

On board -40 ~85 ° C, <85%R.H

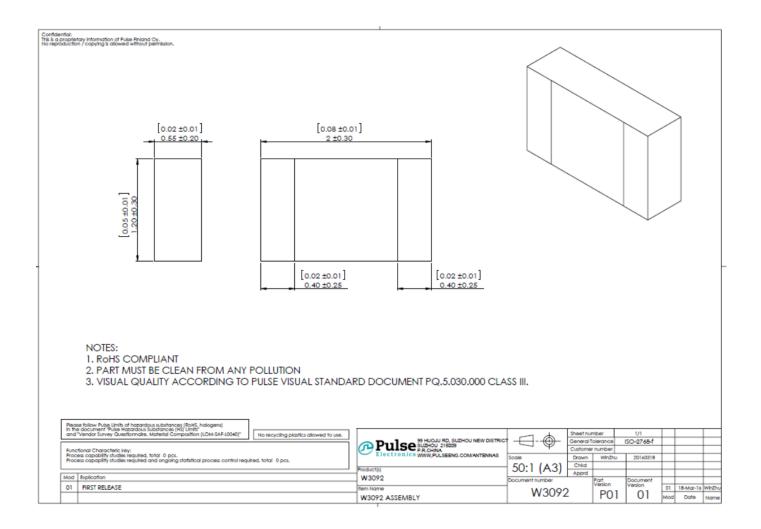


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MECHANICAL DRAWING







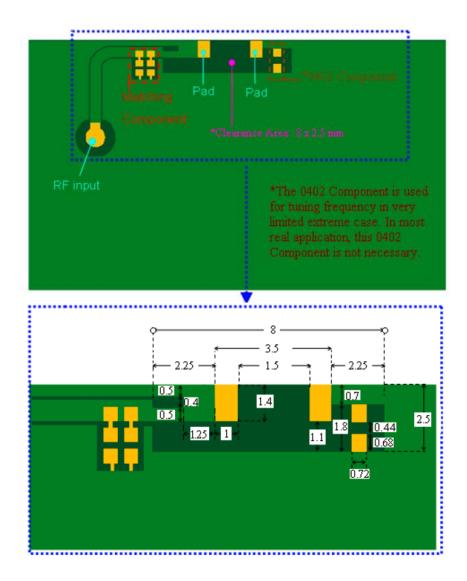
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OTHER SPECIFICATIONS

Recommended PCB layout(Unit:mm)



*Clearance 8mm × 2.5mm : All metallization should be removed from all PCB layers.

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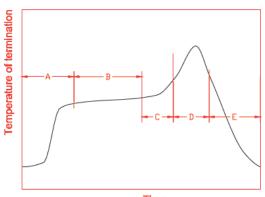
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OTHER SPECIFICATIONS

Recommended reflow soldering



The normal to Preheating 1st rising temperature 30s to 60s temperature В 140°C to 160°C Preheating 60s to 120s Preheating to 200°C 2nd rising temperature 20s to 40s if 220°C 50s~60s if 230°C 40s~50s if 240°C 30s~40s D Main heating if 250°C 20s~40s if 260°C 20s~40s Regular cooling 200°C to 100°C 1°C/s ~ 4°C/s

*reference: J-STD-020C

- (1) Soldering gun procedure Note the follows, in case of using solder gun for replacement.
- (a) The tip temperature must be less than 350°C for the period within 3 seconds by using soldering gun under 30 W.
- (b) The soldering gun tip shall not touch this product directly.
- (2) Soldering volume Note that excess of soldering volume will easily get crack the body of this product.



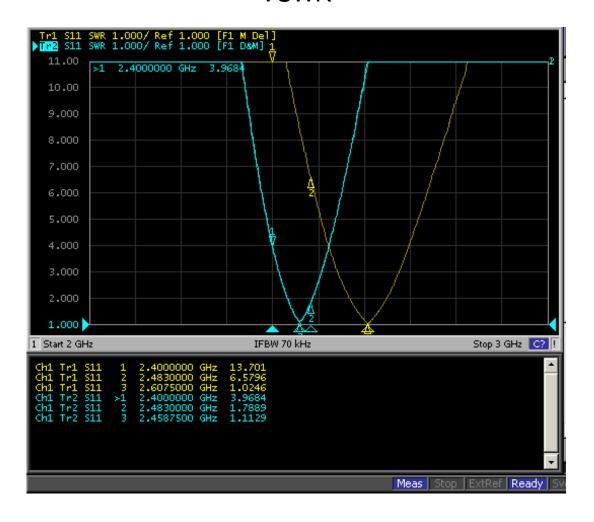
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CHARTS

VSWR



Yellow: 0ohm resistor only Blue: 0 ohm + 1.1pF capacitor





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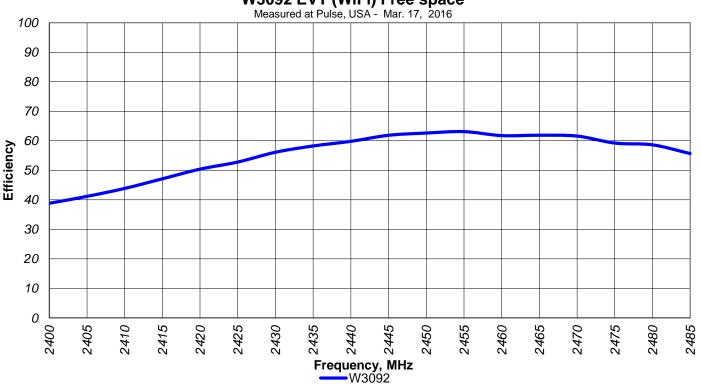
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CHARTS

Efficiency

Efficiency vs Frequency W3092 EVT (WiFi) Free space



with 1.1pF tuning capacitor





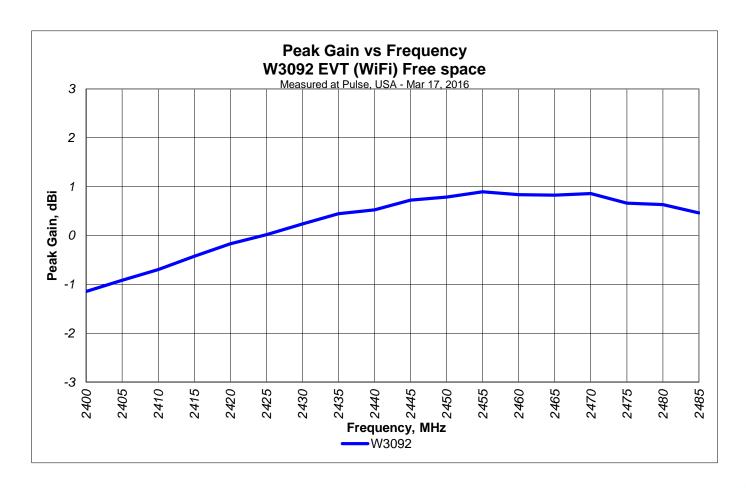
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CHARTS

Gain



with 1.1pF tuning capacitor





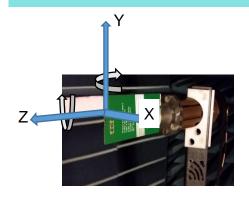


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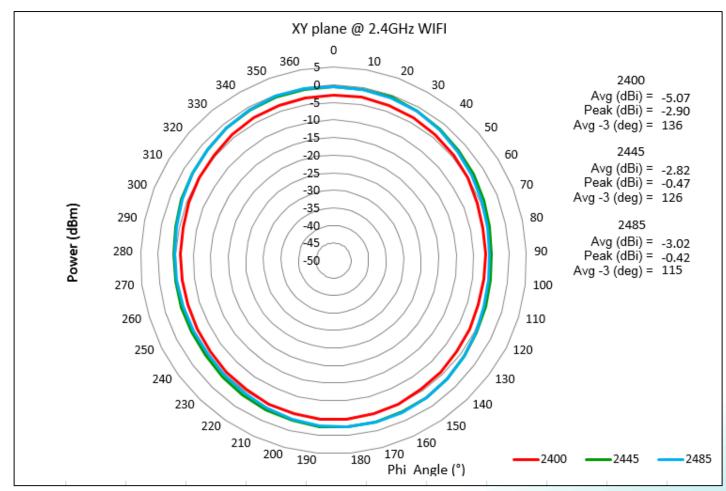
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CHARTS



Radiation pattern





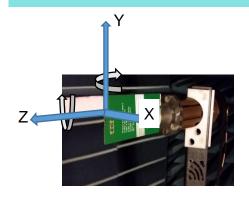


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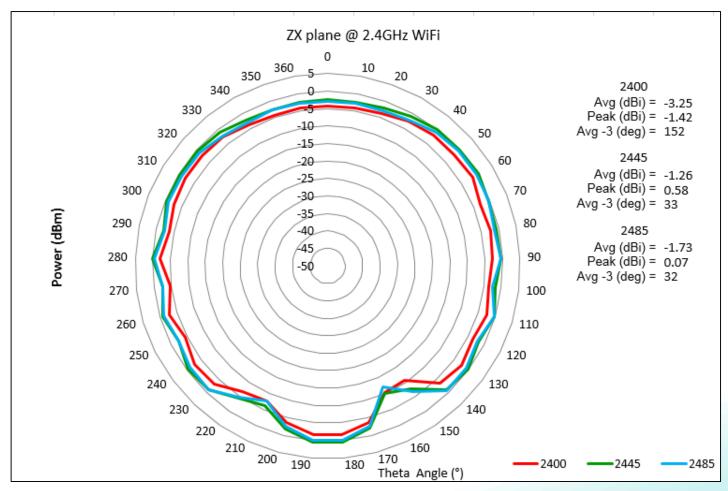
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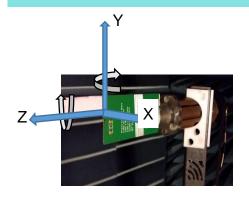


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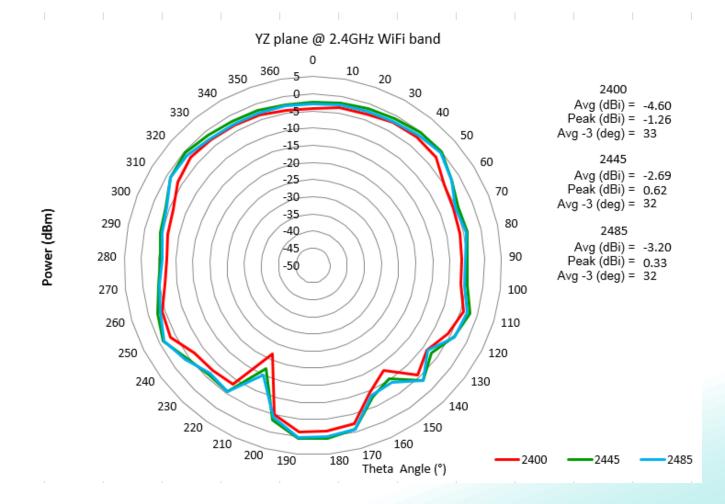
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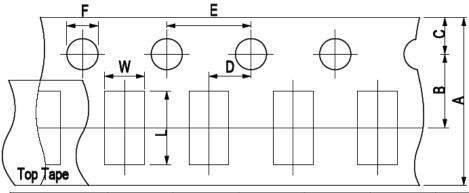
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PACKAGING

Taping Package and Label Marking: (unit: mm)

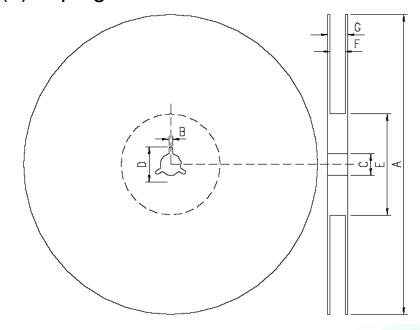
(1) Quantity/Reel: 5000pcs/Reel

(2) Carrier tape dimensions



Туре	Α	В	С	D	Е	F	L	W
ACA2012	8.00±	3.50±	1.75±	2.00±	4.00±	1.50±	2.30±	1.55±
	0.30	0.05	0.10	0.05	0.10	0.10	0.10	0.10

(3) Taping reel dimensions



Α	178.0±2.0
В	2.0±0.5
С	13.0±0.5
D	21.0±0.8
Ε	62.0±1.5
F	9.0±0.5
G	13.0±1.0

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