

Description: 2012 Diplexer

PART NUMBER: DPX2012LRGYR2558A

Features:

- Compact size
- RoHS compliant

Applications:

- WLAN



Net weigh/pcs (g): 0.00919

ELECTRICAL SPECIFICATIONS

Low-Band

| Item | Frequency Range (MHz) | Min. | Typ. | Max. |
|---------------------|-----------------------|------|------|------|
| Insertion loss (dB) | 2400~2500 | - | - | 2.4 |
| Return loss (dB) | 2400~2500 | 12 | - | - |
| Attenuation (dB) | 824~915 | 30 | - | - |
| | 1545~1605 | 25 | - | - |
| | 1710~1910 | 25 | - | - |
| | 2170 | 12 | - | - |
| | 4800~5000 | 30 | - | - |
| | 7200~7500 | 26 | - | - |

High-Band

| Item | Frequency Range (MHz) | Min. | Typ. | Max. |
|---------------------|-----------------------|------|------|------|
| Insertion loss (dB) | 5150~5850 | - | - | 1.2 |
| Return loss (dB) | 5150~5850 | 12 | - | - |
| Attenuation (dB) | 2400~2500 | 25 | - | - |
| | 10300~11700 | 20 | - | - |

Common

| Item | Frequency Range (MHz) | Min. | Typ. | Max. |
|------------------|-----------------------|------|------|------|
| Return loss (dB) | 2400~2500 | 12 | - | - |
| | 5150~5850 | 12 | - | - |

Operating Temperature Range : -40~85°C

Power Capacity : 3W max.

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

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For more information:



Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel: 1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
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Zeppelinstrasse 15
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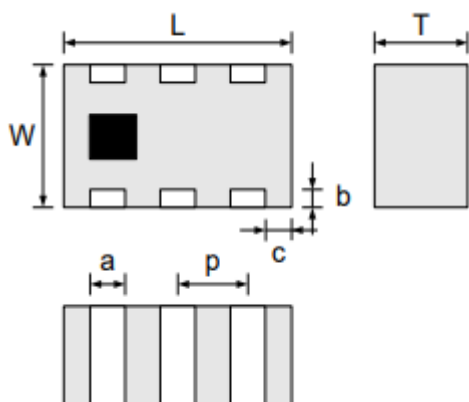
Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg, 4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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MECHANICAL DIMENSION

Outline



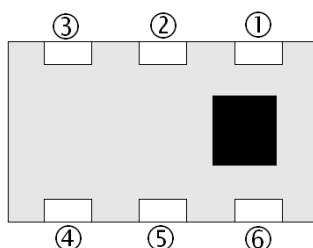
Dimension

| L | W | T | a |
|-----------|-----------|-----------|-----------|
| 2.00±0.15 | 1.25±0.15 | 0.70 max. | 0.30±0.20 |
| b | c | p | |
| 0.30±0.20 | 0.20±0.20 | 0.65±0.20 | |

NOTE : Dimensions in mm.

Termination

Top View

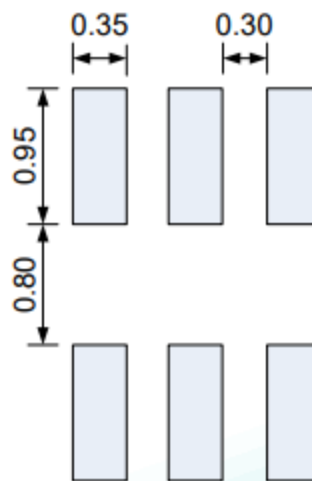
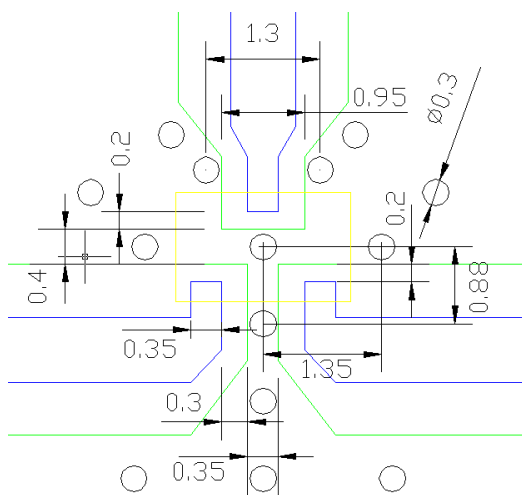


Terminal name

Function

| | |
|---|-----------|
| 1 | High band |
| 2 | GND |
| 3 | Low band |
| 4 | GND |
| 5 | Common |
| 6 | GND |

Reference design of EVB



Unit : mm

⊙ Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

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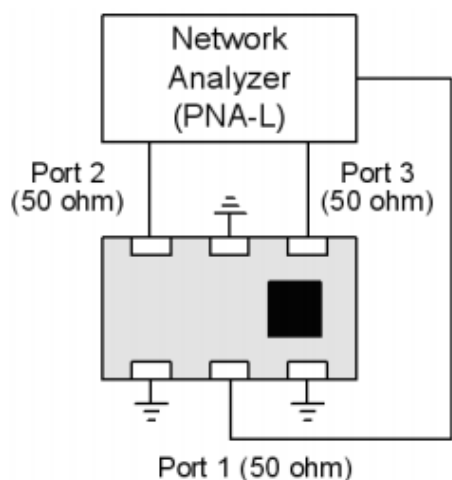
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Description: 2012 Diplexer

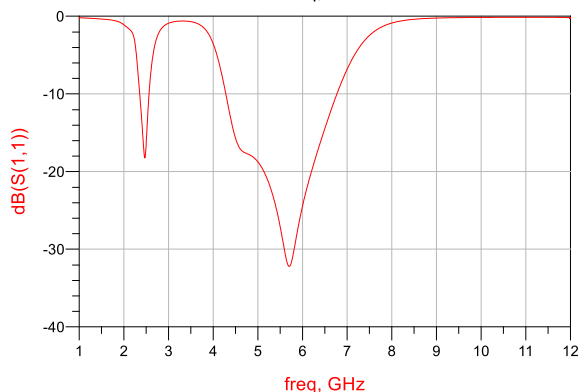
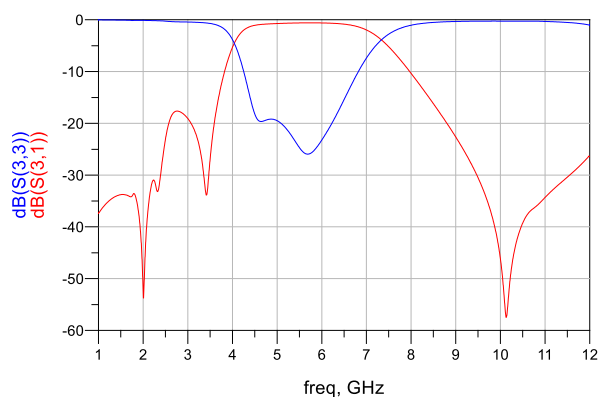
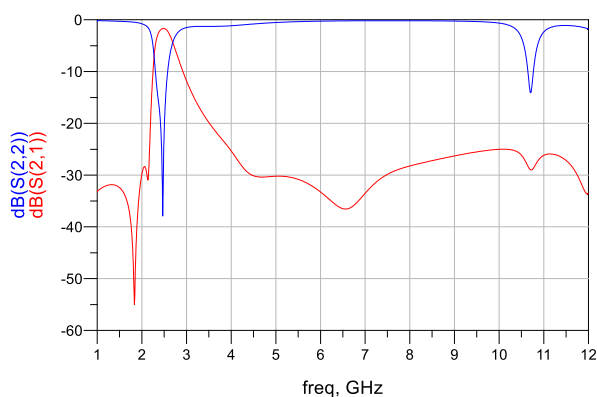
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MEASURING DIAGRAM



Test Instrument :
Agilent N5230A Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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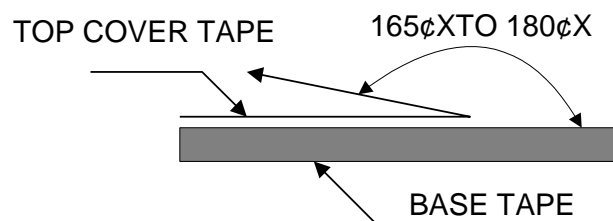
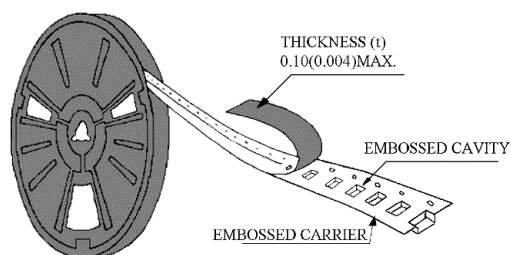
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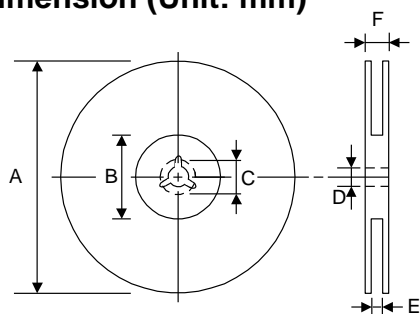
PACKING SPECIFICATION

Peel-off force



The force for peeling of cover tape is 10 grams in the arrow direction.

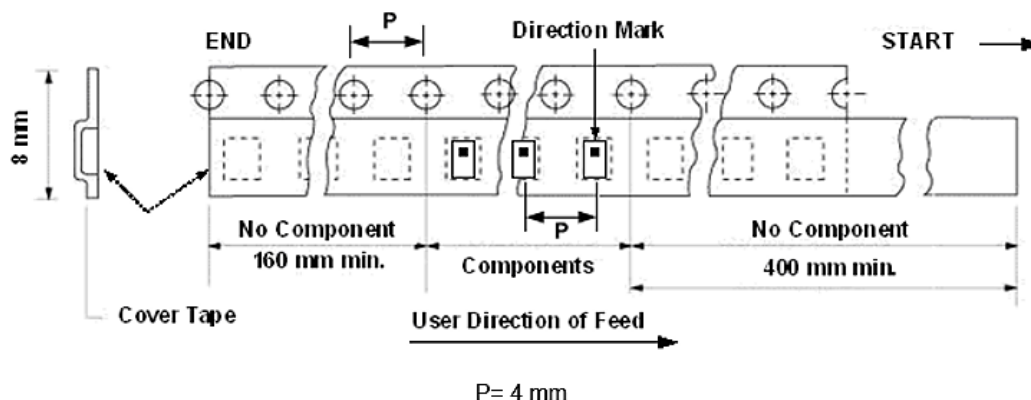
Dimension (Unit: mm)



| TYPE | A | B | C | D | E | F |
|-------|---------|--------------|----------|----------|----------|--------|
| 8 mm | 178±1 | 60+0.5 -0 | - | 13±0.2 | 9±0.5 | 12±0.5 |
| 12 mm | 178±0.3 | 60±0.2 | 19.3±0.1 | 13.5±0.1 | 13.6±0.1 | - |

Taping quantity

| SERIES | 5824 5724 | 5320 5220 | 4532 | 4516 | 3225 | 3216 2520 | 2012 1608 | 1005 0605 |
|----------|--------------|--------------|------|------|------|--------------|--------------|--------------|
| PCS/Reel | 5000 | 3000 | 1000 | 2000 | 2500 | 3000 | 4000 | 10000 |



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Description: 2012 Diplexer**PART NUMBER:** DPX2012LRGYR2558A**REVISION HISTORY**

| Revision | Date | Description |
|-------------|---------------|----------------------|
| Preliminary | Sep.19, 2023 | - New issue |
| Version 1 | Oct. 15, 2024 | - Update to version. |
| Version 2 | Nov. 05, 2024 | - Update to version. |

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