

Data Sheet

PD1500U03W

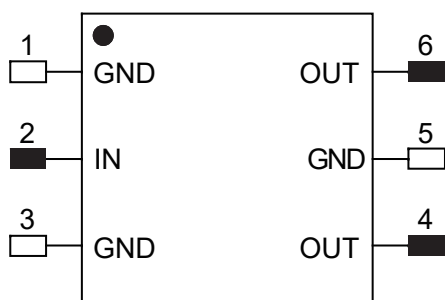
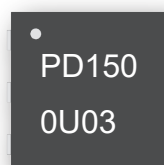
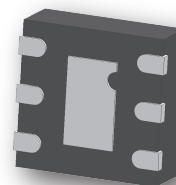
Power Divider/Combiner

2-Way 0° 50Ω 1.0-2.0 GHz



Features

- Small Size (2×2mm DFN package)
- No need external 100 Ω resistor
- Very Low Loss
- Tight Amplitude Balance
- High Isolation
- Low VSWR
- Good Repeatability
- Tape & Reel
- Operating Temperature -40°C~105°C
- Storage Temperature -40°C~105°C
- Power handling
 - 2 Watts as a divider
 - 1 Watts as a combiner



TOP VIEW

Applications

- Wireless communications
- WLAN / WiMax
- SAT Radio
- ISM band instrument
- Information System for Automotive Safety

Notes:

1. This part has passed through 100% RF test.
2. Suggest to add Capacitors of DC Blocker between Pins(with black color) and external circuit to prevent DC signal entry to guarantee parts normal work.

Electrical Specifications at 25 °C

Frequency	Isolation	Input Return Loss	Output Return Loss	Insertion Loss
MHz	dB Min	(dB) Min	(dB) Min	(dB)Max
1000-1100	11.5	14.5	15	0.4
1100-1350	13.5	16.0	17	0.4
1350-1650	17.0	15.5	22	0.35
1650-2000	9	8	18	1.0
Phase Balance	Amplitude Balance	Power	Operating Temp.	
Degrees	dB Max	Avg. CW Watts at 105°C	°C	
±1.00	± 0.10	2	-40 to +105	
±1.00	± 0.10	2	-40 to +105	
±1.20	± 0.10	2	-40 to +105	
±1.40	± 0.10	2	-40 to +105	

- Notes: 1. All the above data are based on specified demo board.
2. Insertion loss: Thru board loss has been removed

Yantel Corporation

Add: No.308-322, 3F, Building 1, Juchuang Jingu Innovation Park, Wenyuan Road 35, Xili Street, Nanshan, Shenzhen, China
Tel: 86-755-8355-1886 Fax: 86-755-8355-2533

Rev A4.1

For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

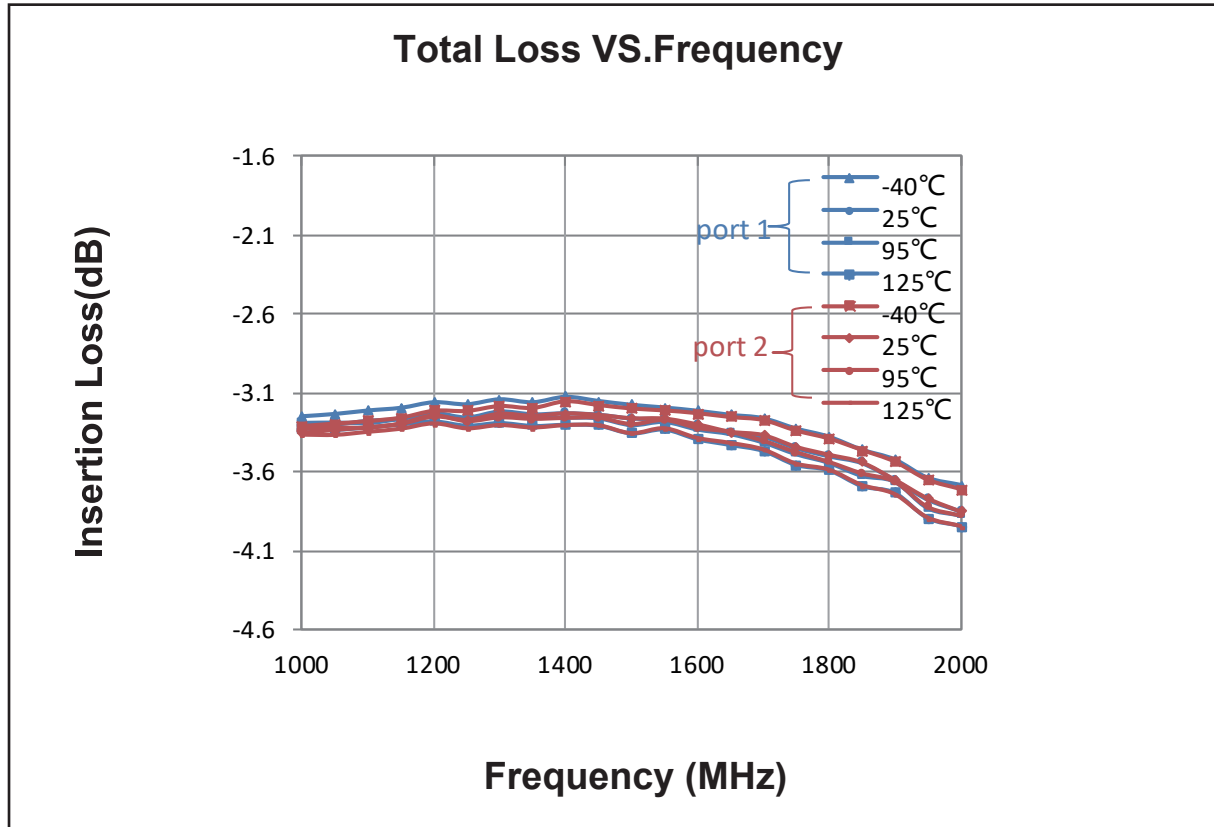
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Typical Performance (-40°C, 25°C, 85°C, 125°C: 1000-2000 MHz)



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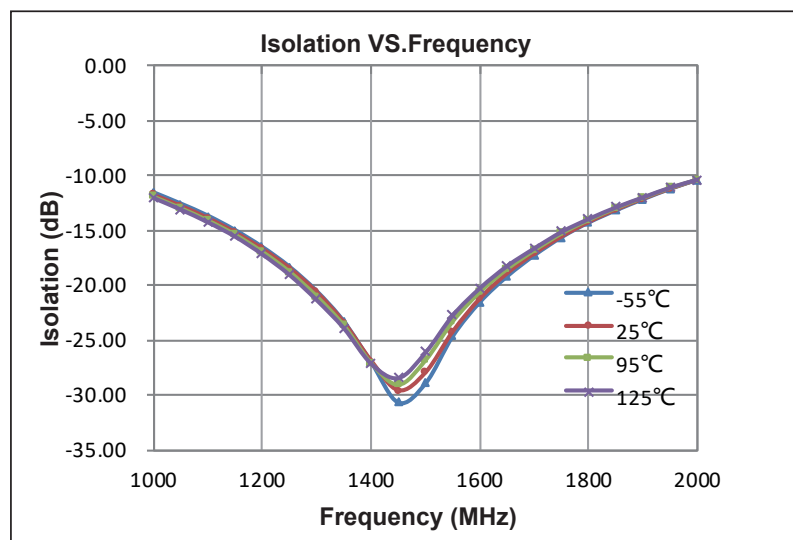
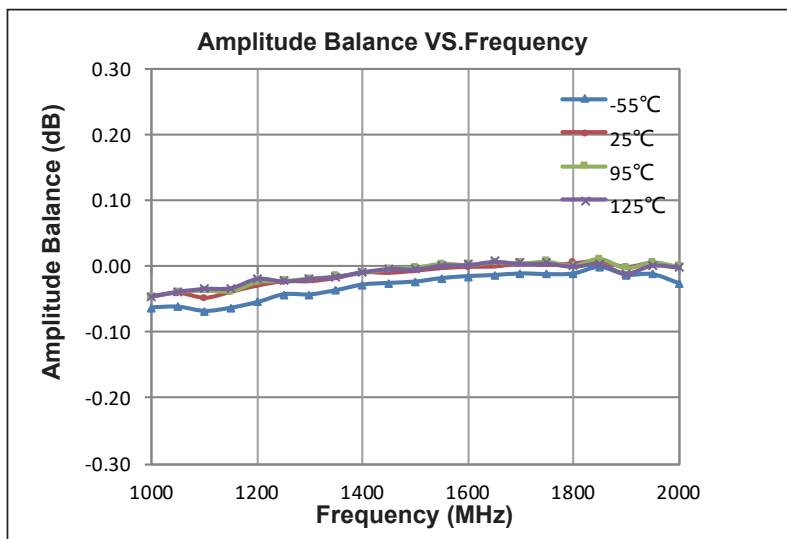
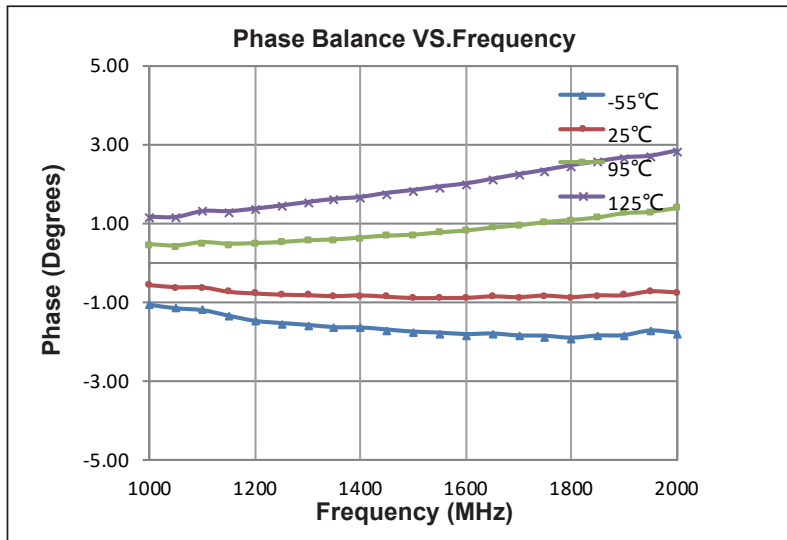
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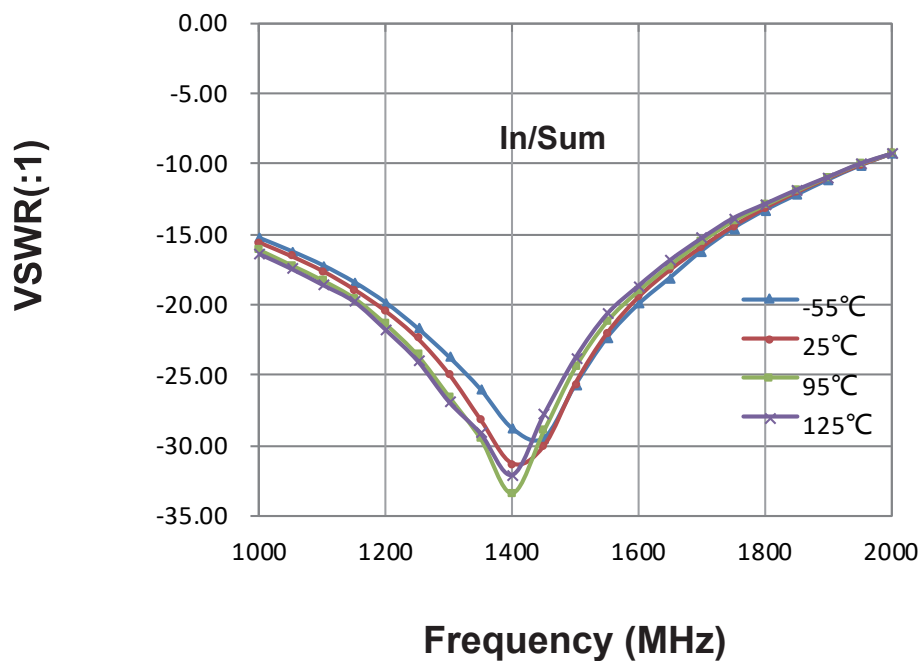
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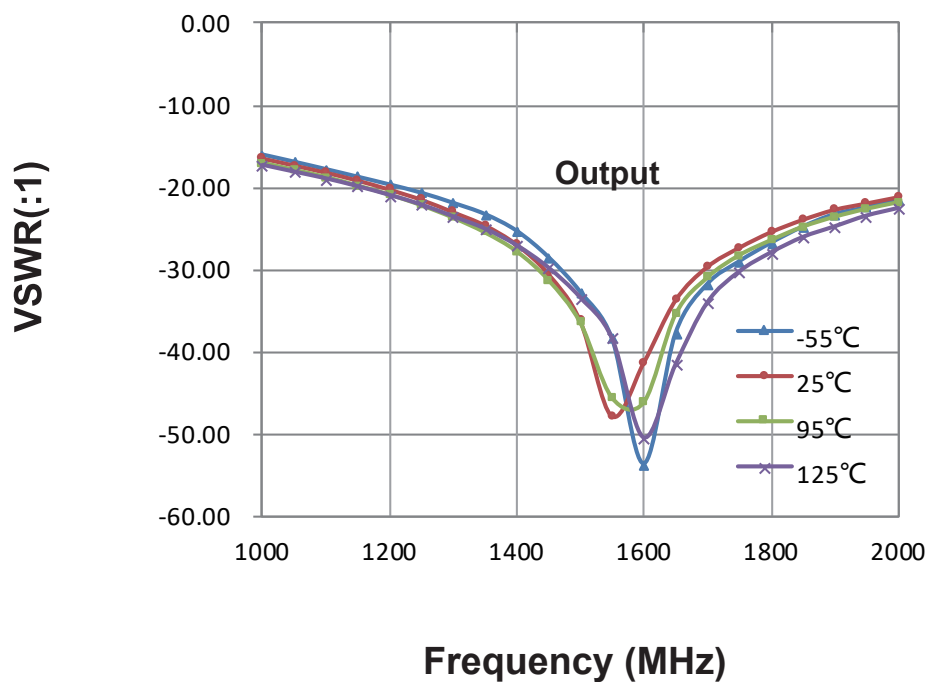
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Return Loss VS.Frequency



Return Loss VS.Frequency



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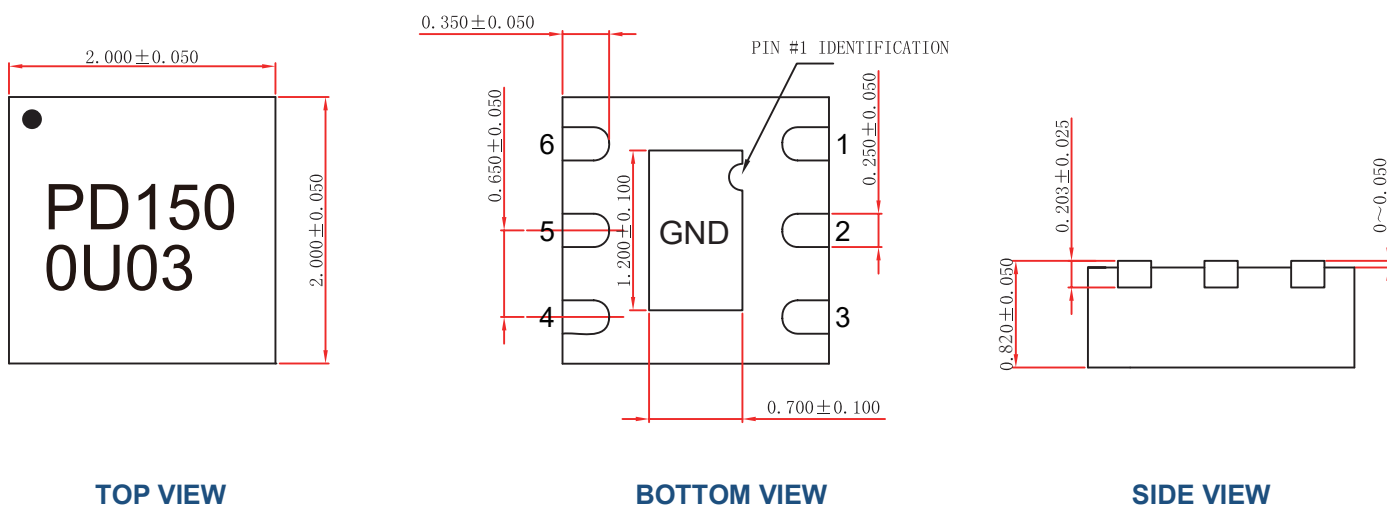
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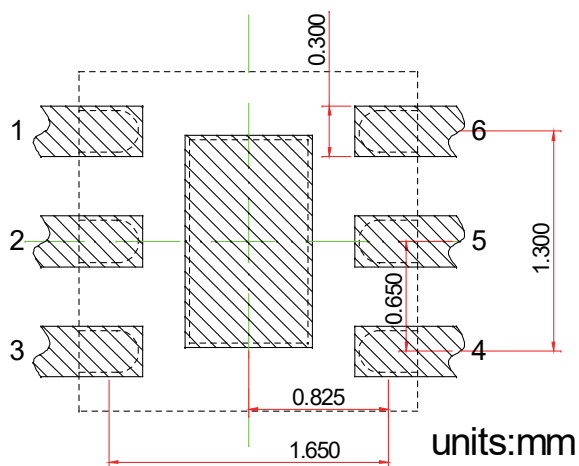
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Outline Drawing



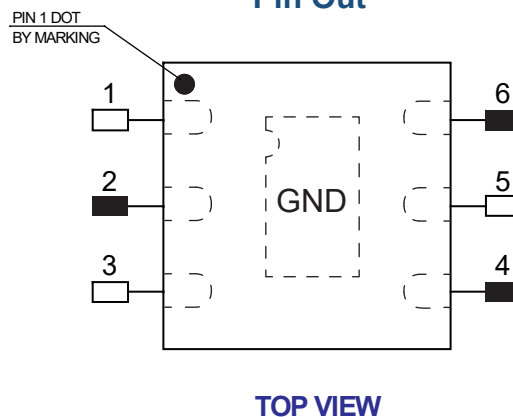
Land Pattern



Recommended Land Pattern Top View

Notes: All dimensions show in millimeters

Pin Out



Notes:

1. Require to add Capacitors of DC Blocker between Pins(with black color) and external circuit to prevent DC signal entry to guarantee parts normal work.
2. This part has passed through 100% RF test.

Pin #	Connection
1	GND
2	IN
3	GND
4	OUT
5	GND
6	OUT
Center Pad	GND

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