

Data Sheet

PD12000U06

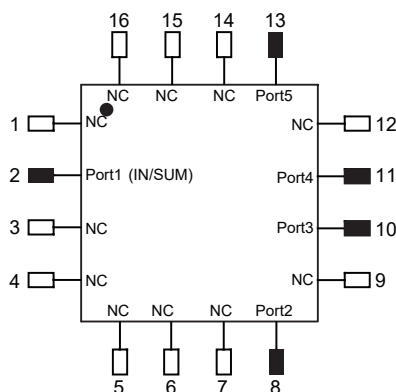
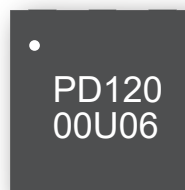
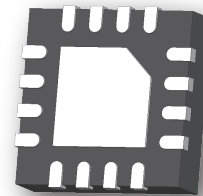
Power Divider/Combiner

4-Way 0° 50Ω 10-14.5 GHz



Features

- Small Size (3×3mm QFN package)
- Passive RF IC, no need external DC power supply
- No need external 100 Ω resistor
- Very Low Loss
- Tight Amplitude Balance
- High Isolation
- Low VSWR
- Good Repeatability
- Tape & Reel
- Operating Temperature -55°C~95°C
- Power handling
 - 2 Watts as a divider
 - 0.5 Watts as a combiner



TOP VIEW

Applications

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

Electrical Specifications at 25° C

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	F	10		14.5	GHz
Insertion Loss (Above 6dB)	I _L		0.6	0.8	dB
Isolation	Isol	16	20		dB
Phase balance	∅ _{bal}		1		deg
Amplitude balance	A _{bal}		0.1		dB
Input VSWR			1.2~1.3		:1
Output VSWR			1.2~1.25		:1

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Rev A0 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

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

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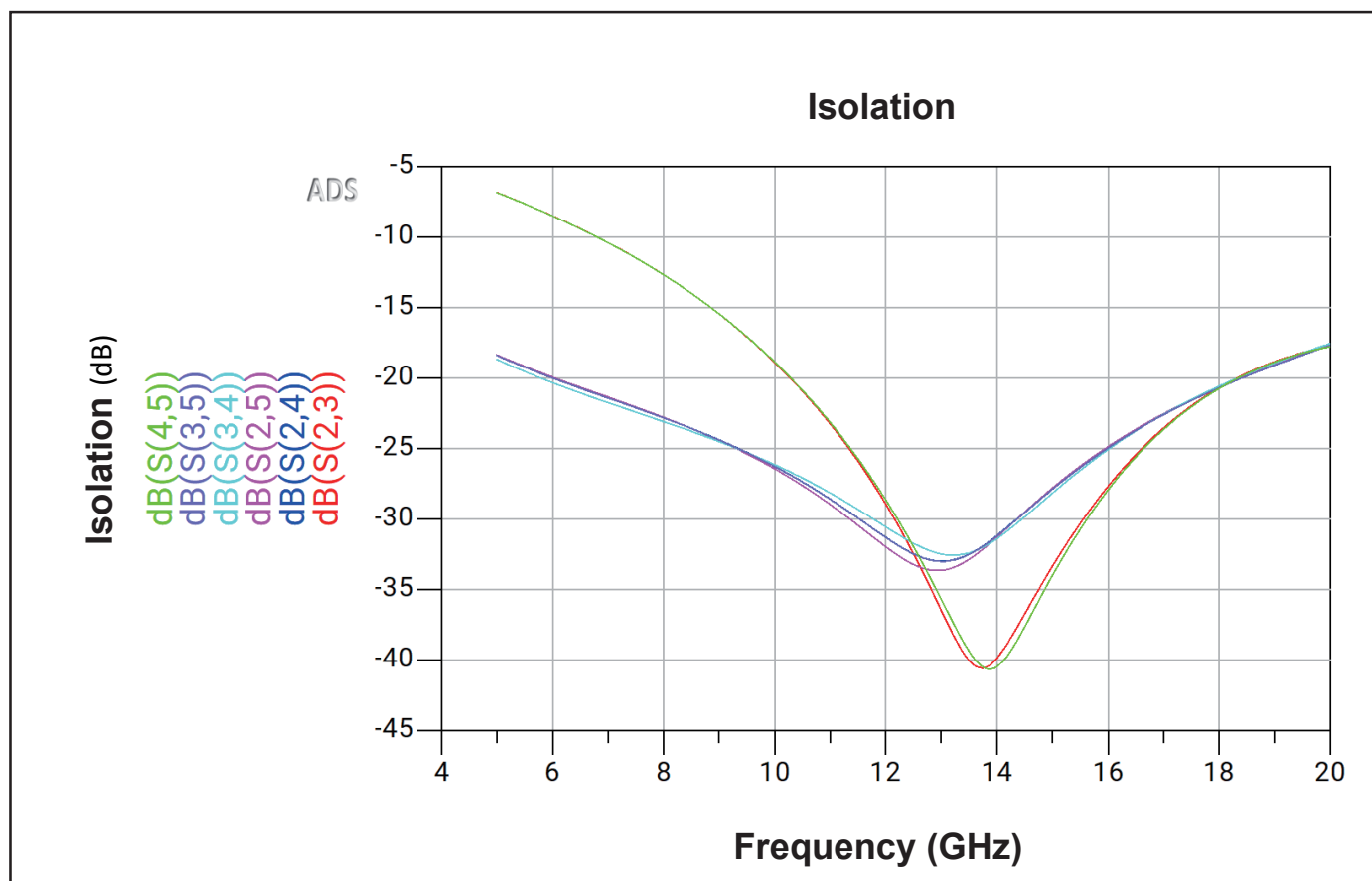
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Typical Performance (25°C: 10-14.5 GHz)



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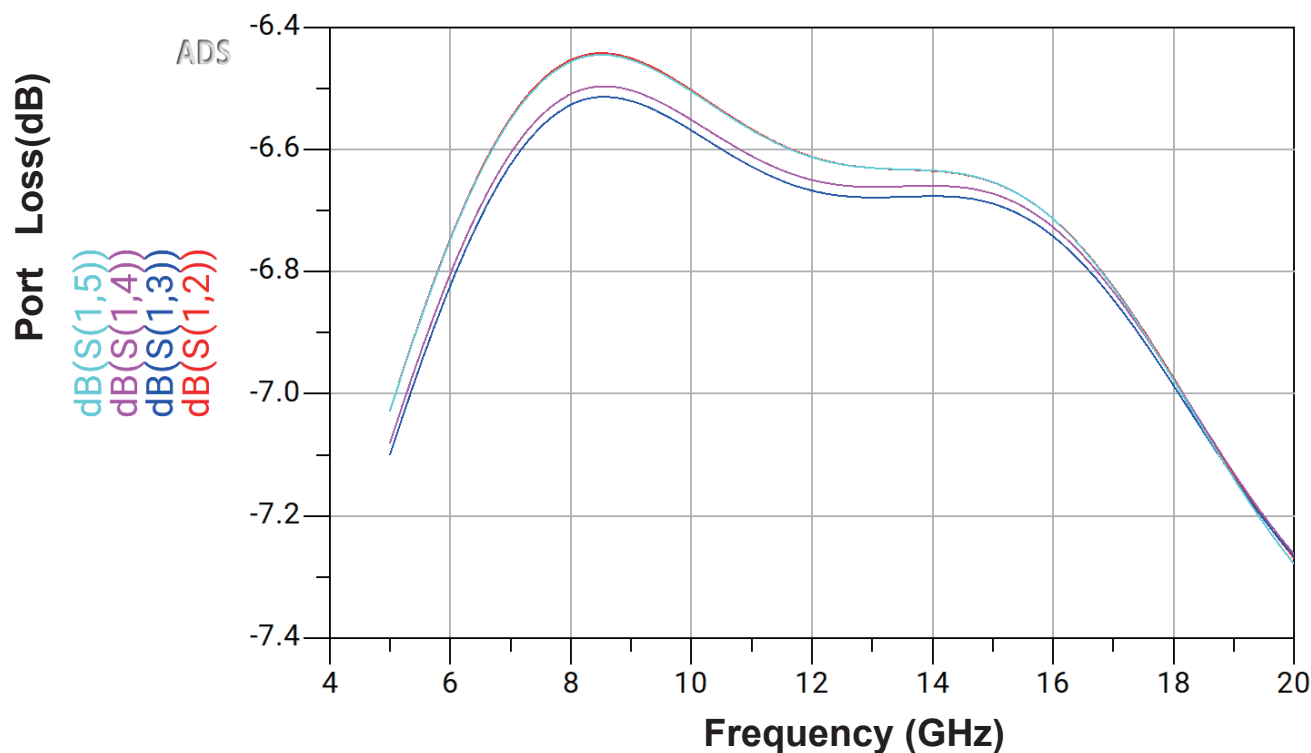
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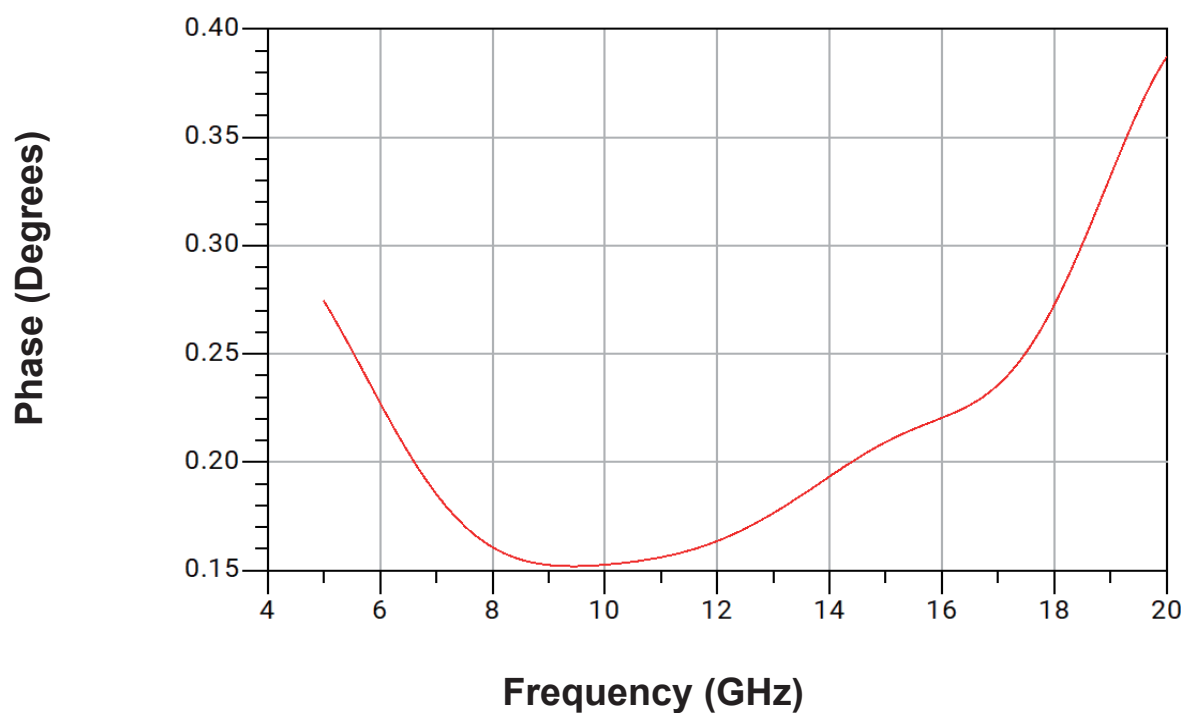
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Total Loss



Phase Balance



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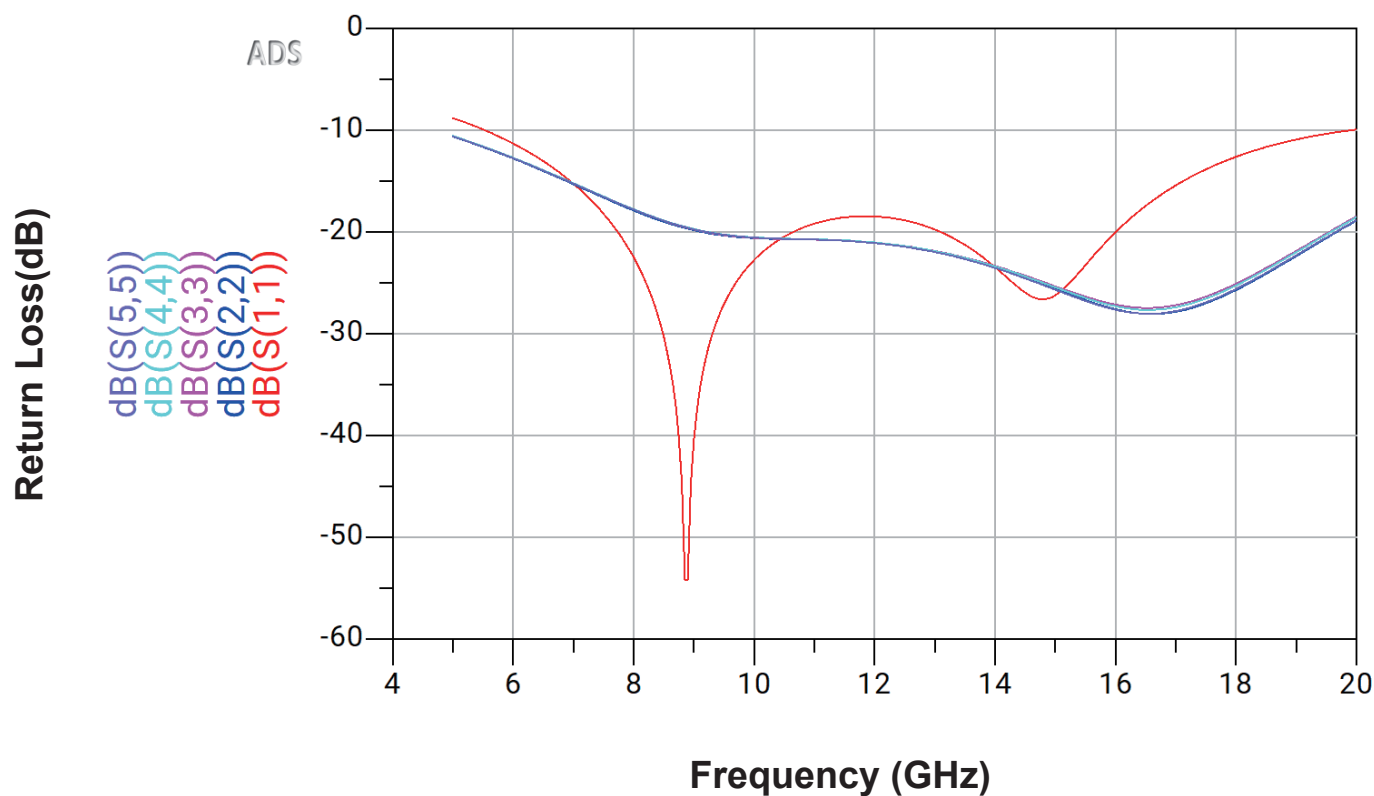
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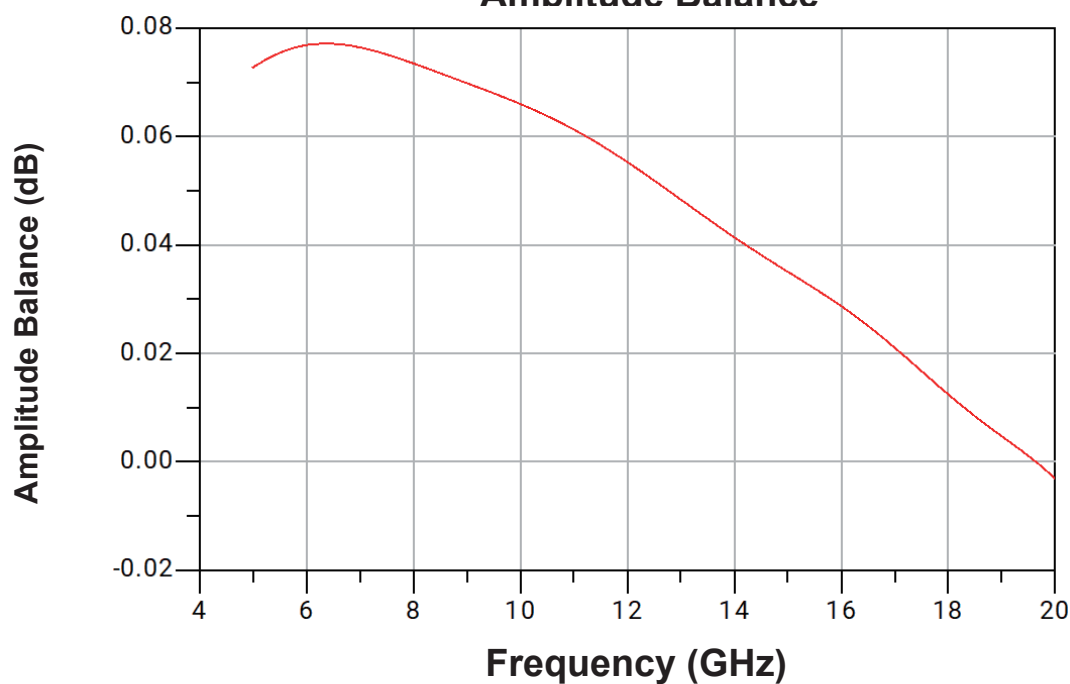
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Return Loss



Amplitude Balance



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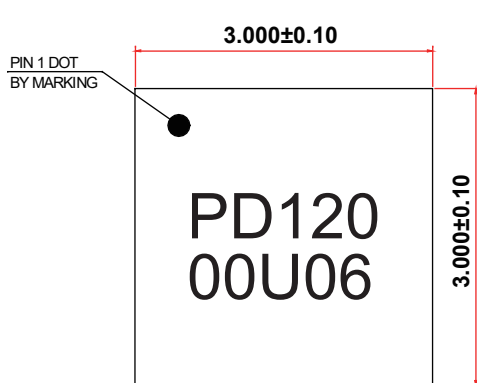
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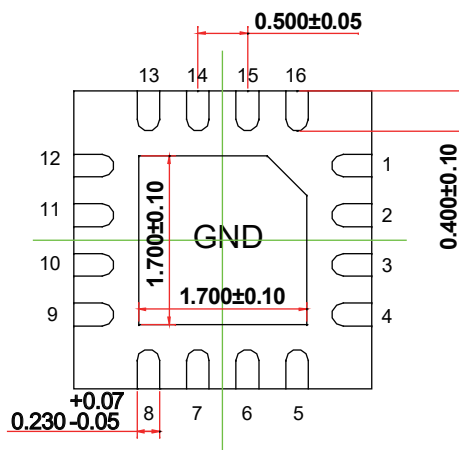
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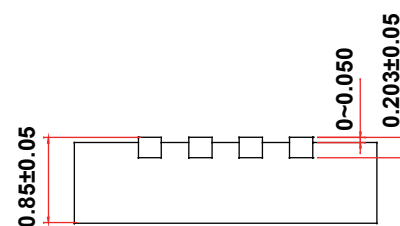
Outline Drawing



TOP VIEW

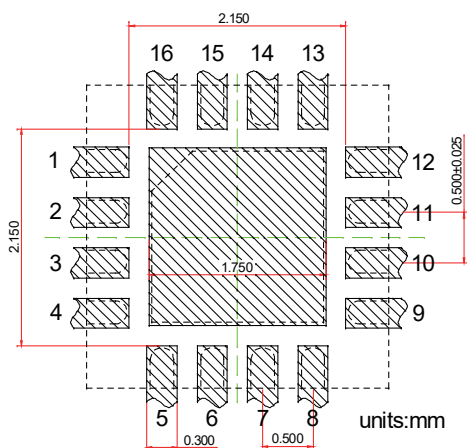


BOTTOM VIEW



SIDE VIEW

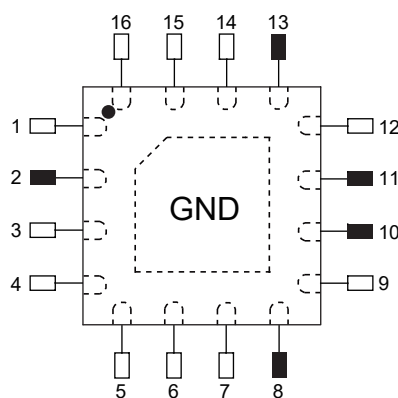
Land Pattern



Recommended Land Pattern
Top View

Notes: All dimensions show in millimeters

Pin Out



TOP VIEW

Notes:

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

Pin #	Connection
1	NC
2	PORT 1 (IN/SUM)
3	NC
4	NC
5	NC
6	NC
7	NC
8	PORT 2
9	NC
10	PORT 3
11	PORT 4
12	NC
13	PORT 5
14	NC
15	NC
16	NC
Center Pad	GND

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