

PD4000U03W

Patented Product

Power Divider/Combiner

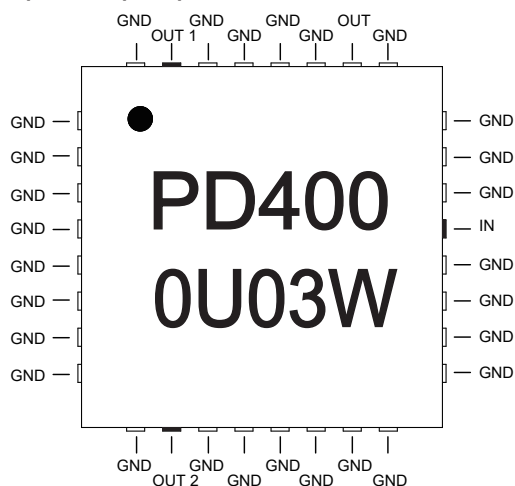
2-Way 0° 50Ω DC-8GHz



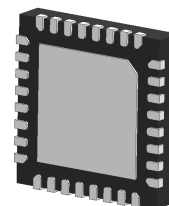
Features

- Ultra-Wide Bandwidth, DC to 8 GHz
- Small Size, 5x5 mm
- Aqueous Washable
- Good Repeatability
- High ESD level*
- Operating Temperature -55°C~105°C
- Power handling
 - 0.6 Watts as a divider/combiner
 - As a combiner of non-coherent signals, max.

power per port is 0.3 Watts.



TOP VIEW



Applications

- WIMAX
- ISM
- Instrumentation
- Radar
- WLAN
- Satellite Communications
- LTE

Notes:

1. This part has passed through 100% RF test.

* ESD rating

Human Body Model (HBM): Class 2 (Pass 2000 V) in accordance with ANSI/ESD STM 5.1 - 2001

Yantel Corporation

Add: 3F, Building 3, Southern District 2 of Zhongguan Honghualing Industrial Park, Xili, Nanshan, Shenzhen, China

Tel: 86-755-8355-1886 Fax: 86-755-8355-2533

Rev A1.2

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

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Electrical Specifications at 25° C

Parameter		Frequency (GHz)	Min.	Typ.	Max.	Unit
Frequency Range			DC		8.0	GHz
Insertion Loss, Above 3.0 dB		DC-0.4		3.25	3.40	dB
		0.4-0.7		3.26	3.50	
		0.7-7.5		3.60	4.10	
		7.5-8.0		4.25	4.45	
Isolation		DC-0.4	9.70	11.2		
		0.4-0.7	12.70	14.5		
		0.7-7.5	16.80	20.5		
		7.5-8.0	21.30	21.3		
Phase Unbalance		DC-0.4		0.1	2	
		0.4-0.7		0.3	2	
		0.7-7.5		0.1	9	
		7.5-8.0		0.2	9	
Amplitude Unbalance		DC-0.4		0.1	0.3	
		0.4-0.7		0.1	0.3	
		0.7-7.5		0.1	0.4	
		7.5-8.0		0.1	0.3	
VSWR (Port S)		DC-0.4		1.65		:1
		0.4-0.7		1.60		
		0.7-7.5		1.70		
		7.5-8.0		1.45		
VSWR (Port 1-2)		DC-0.4		1.30		
		0.4-0.7		1.36		
		0.7-7.5		1.45		
		7.5-8.0		1.32		
Power Handling	As a Splitter	DC-8			0.6	W
	As a Combiner	DC-8				

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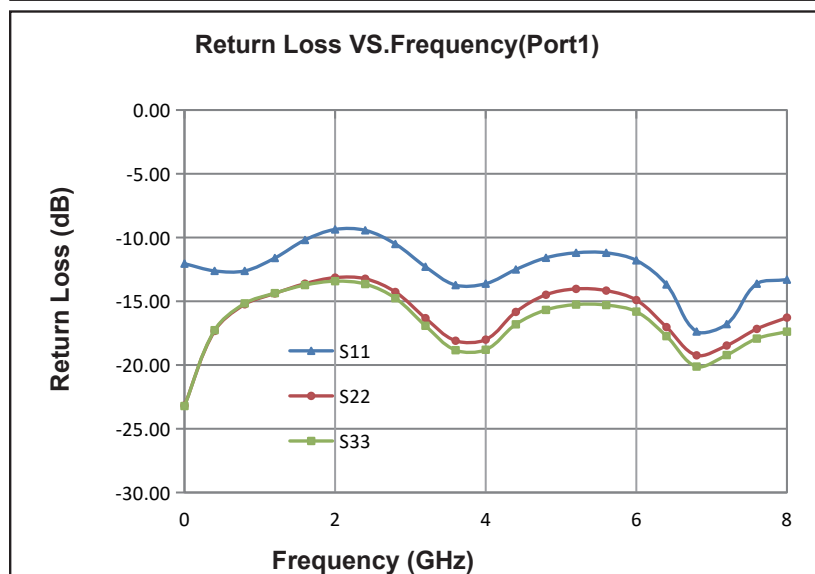
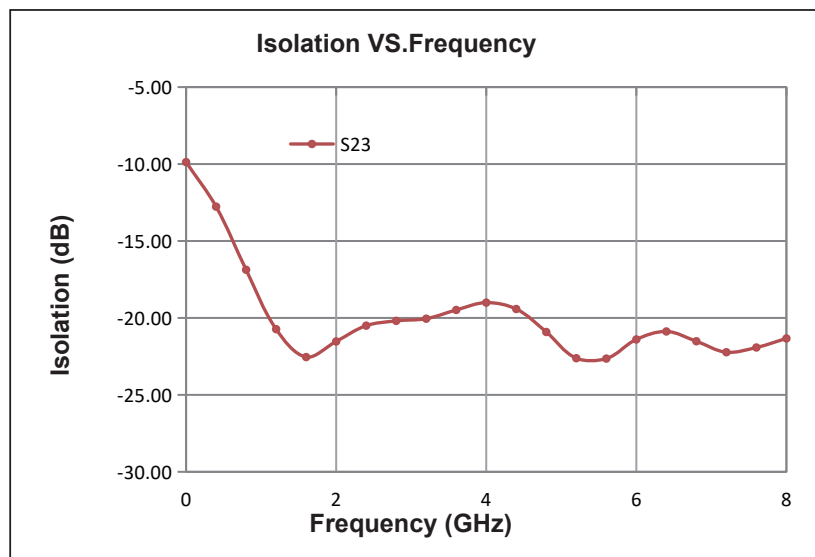
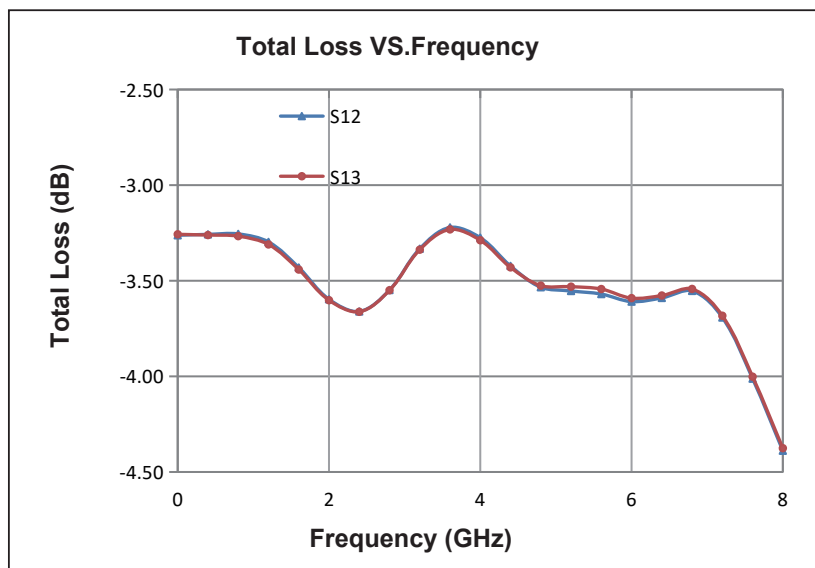
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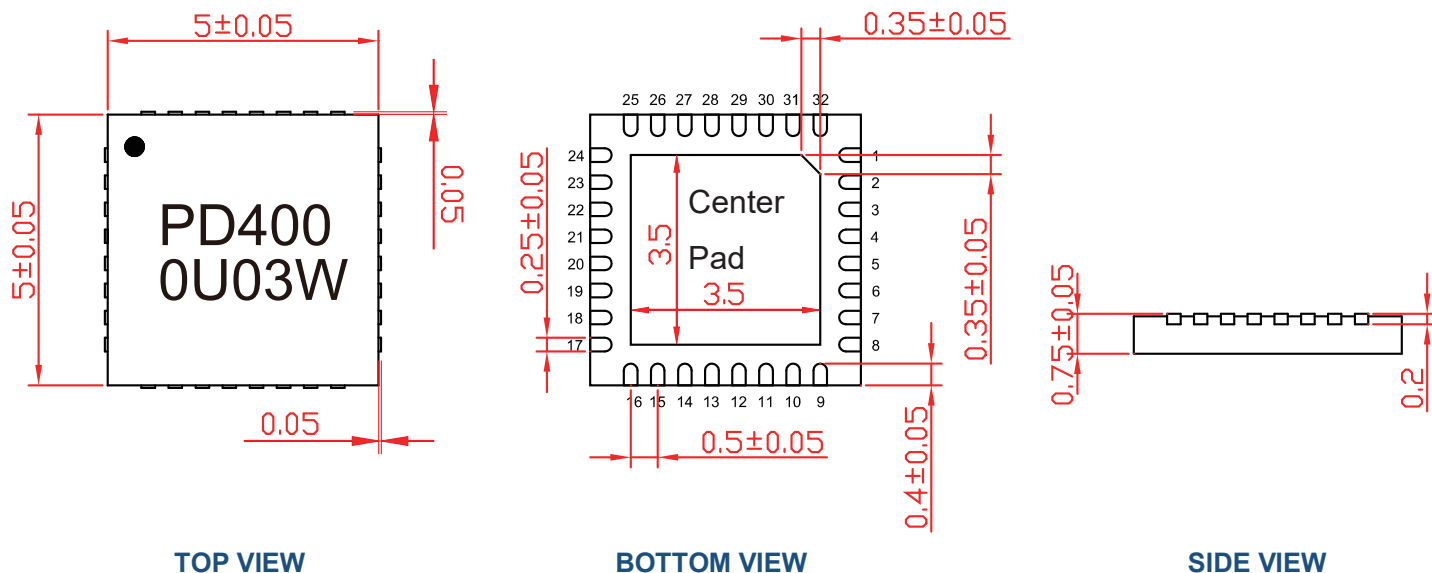
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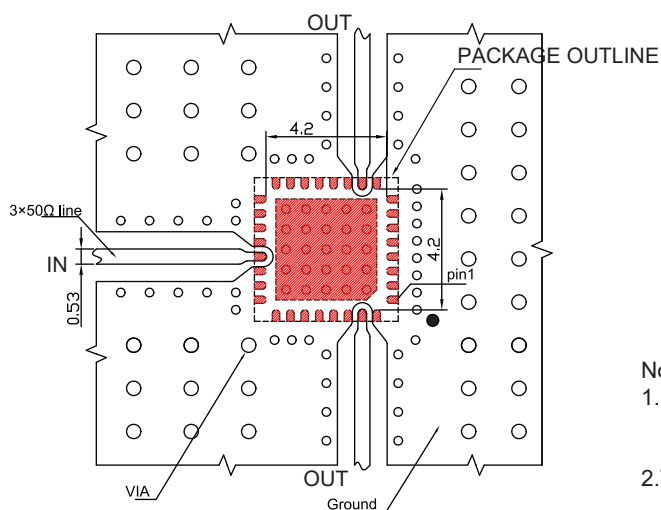
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Outline Drawing units:mm

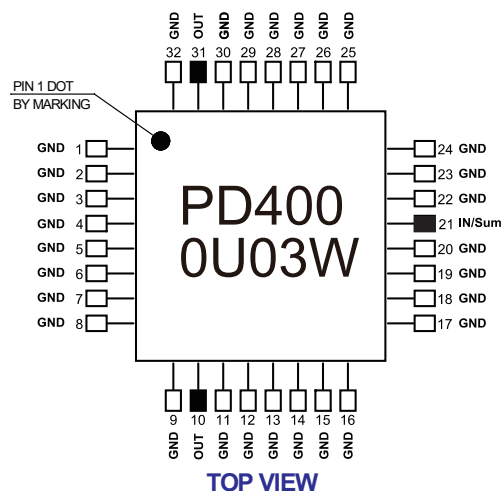


Land Pattern



NOTE:

1. 50Ω line width is shown above designing from RO4350B dielectric thickness 0.254mm; copper 1/2 OZ
2. Bottom side of the PCB is continuous ground plane.
3. All dimensions shown in mm.



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 parts normal work.
2. This part has passed through 100% RF test.

Pin #	Connection	Pin #	Connection	Pin #	Connection
1	GND	13	GND	25	GND
2	GND	14	GND	26	GND
3	GND	15	GND	27	GND
4	GND	16	GND	28	GND
5	GND	17	GND	29	GND
6	GND	18	GND	30	GND
7	GND	19	GND	31	OUT
8	GND	20	GND	32	GND
9	GND	21	IN	Center Pad	GND
10	OUT	22	GND		
11	GND	23	GND		
12	GND	24	GND		

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