

PD9000U03W

Patented Product

Power Divider/Combiner

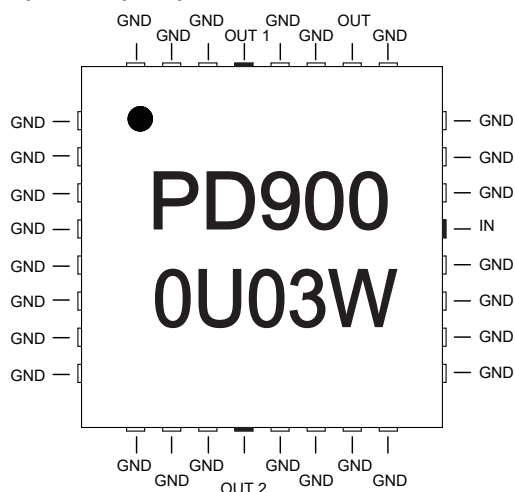
2-Way 0° 50Ω DC-18GHz



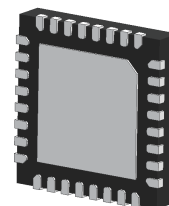
Features

- Ultra-Wide Bandwidth, DC to 18 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		18	GHz
Insertion Loss Above 3.0 dB		DC-4		3.0		dB
		4-18		3.1		
Isolation		DC-4	10	12.0		dB
		4-18	17	26.5		
Phase Unbalance		DC-4		0.5	4	Degree
		4-18		1.1	14	
Amplitude Unbalance		DC-4		0.1	0.3	dB
		4-18		0.2	0.4	
VSWR (Port S)		DC-4		1.45		:1
		4-18		1.35		
VSWR (Port 1-2)		DC-4		1.48		
		4-18		1.40		
Power Handling	As a Splitter	DC-18			0.6	W
	As a Combiner	DC-18			0.6	

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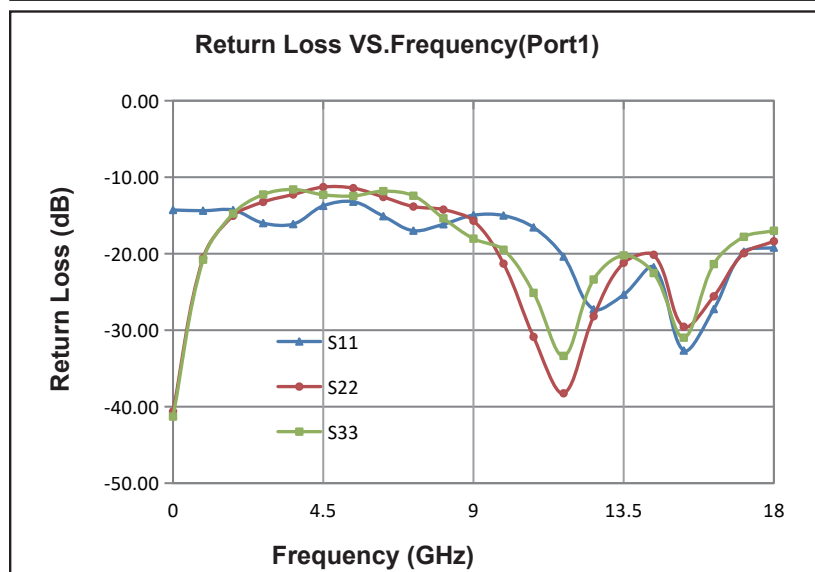
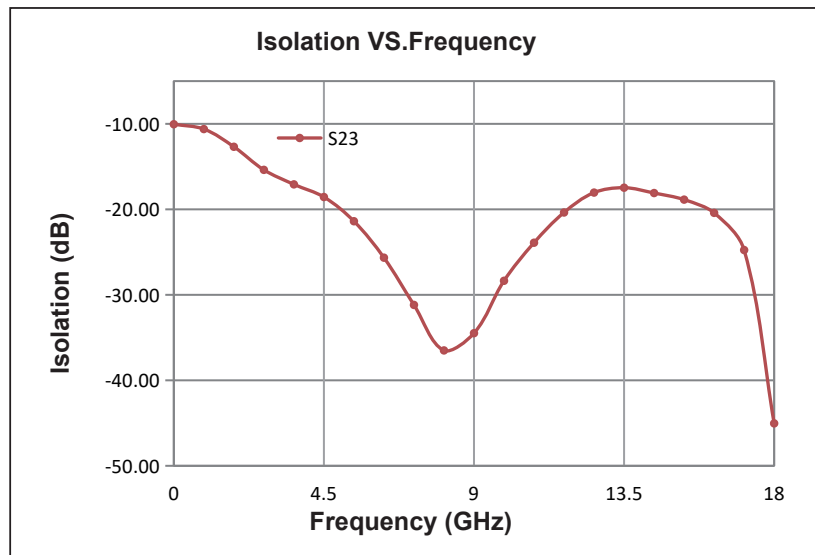
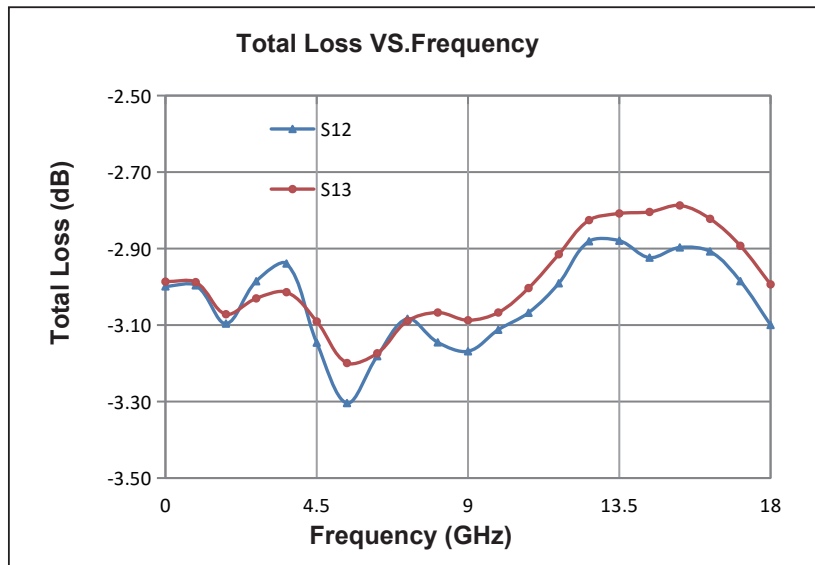
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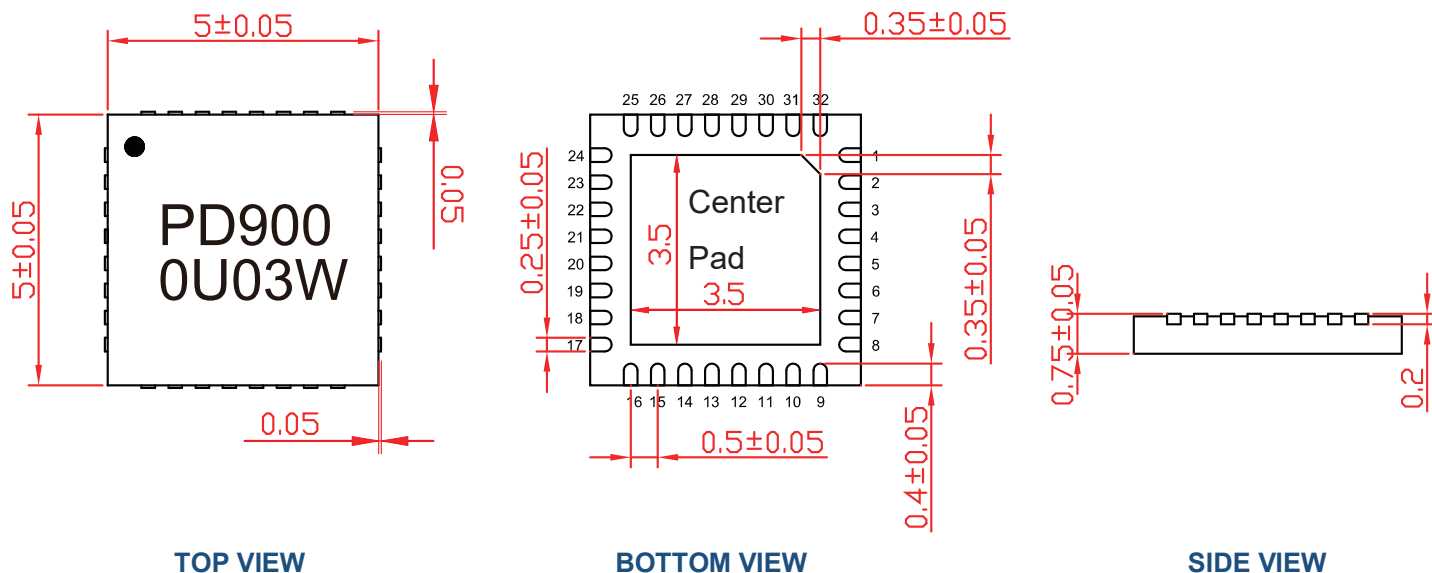
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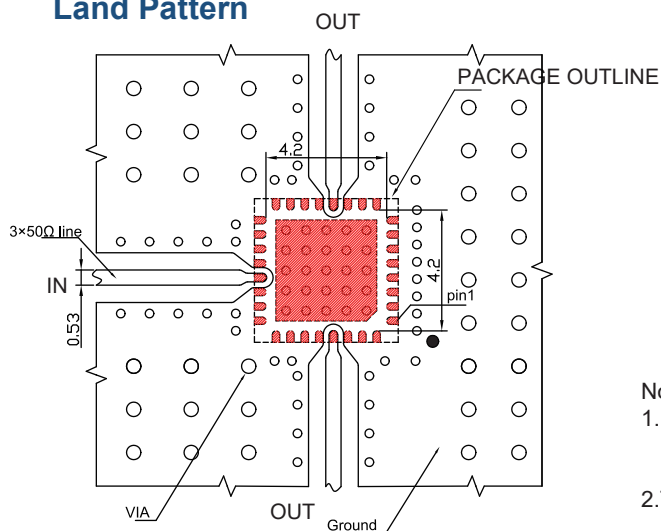
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Outline Drawing units:mm

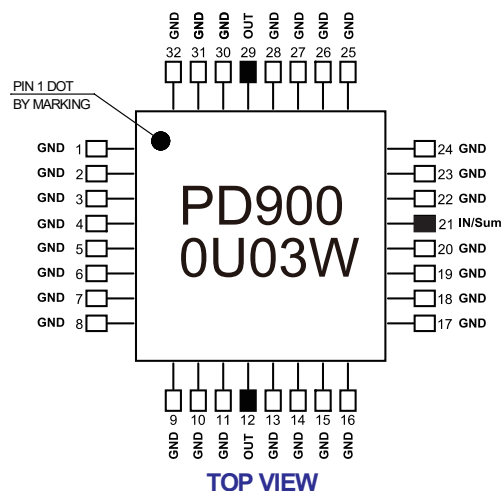


Land Pattern



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
1	GND
2	GND
3	GND
4	GND
5	GND
6	GND
7	GND
8	GND
9	GND
10	GND
11	GND
12	OUT

Pin #	Connection
13	GND
14	GND
15	GND
16	GND
17	GND
18	GND
19	GND
20	GND
21	IN
22	GND
23	GND
24	GND

Pin #	Connection
25	GND
26	GND
27	GND
28	GND
29	OUT
30	GND
31	GND
32	GND
Center Pad	GND

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