

PD2000U05W

Patented Product

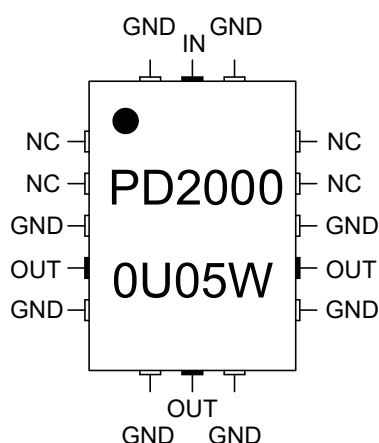
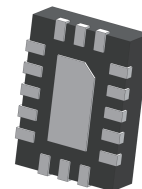
Power Divider/Combiner

3-Way 0° 50Ω 15-25GHz



Features

- Ultra-Wide Bandwidth, DC to 18 GHz
- Small Size, 5x5 mm
- Aqueous Washable
- Good Repeatability
- High ESD level*
- Operating Temperature -40°C~105°C
- Power handling
 - 0.6 Watts as a divider/combiner



TOP VIEW



Applications

- 5G
- Phased Array Radar
- Instrumentation
- MIMO
- Satellite communications

Notes:

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

* ESD rating

Human body model (HBM): Class 2 (2000 to <4000V) in accordance with ANSI/ESD 5.1-2007

Machine model: Class M3 (200 to <4000V) in accordance with ANSI/ESD 5.2-2009

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 A1.0

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

PD20000U05W

Patented Product

Power Divider/Combiner

3-Way 0° 50Ω 15-25GHz



Electrical Specifications at 25° C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		15		25	GHz
Insertion Loss Above 4.8 dB	17.55-20.45	/	0.3	/	dB
	15-25	/	0.5	/	
Isolation	17.55-20.45	/	23	/	dB
	15-25	/	27	/	
Phase Unbalance	17.55-20.45	/	0.1	/	Degree
	15-25	/	0.3	/	
Amplitude Unbalance	17.55-20.45	/	1	/	dB
	15-25	/	1	/	
VSWR (Port S)	17.55-20.45	/	1.2	/	:1
	15-25	/	1.2	/	
VSWR (Port 1-4)	17.55-20.45	/	1.2	/	:1
	15-25	/	1.2	/	
Power Handling	As a Splitter	15-25	/	0.5	W
	As a Combiner	15-25	/	0.63	

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 A1.0

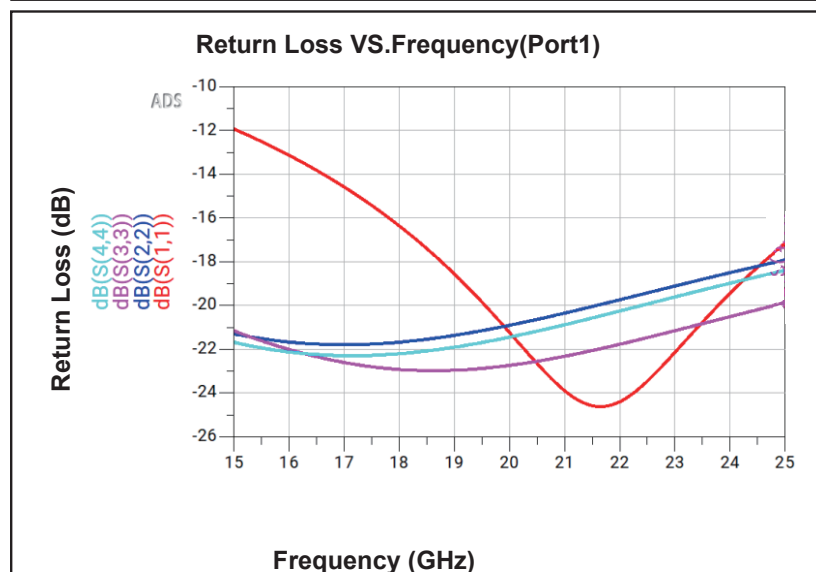
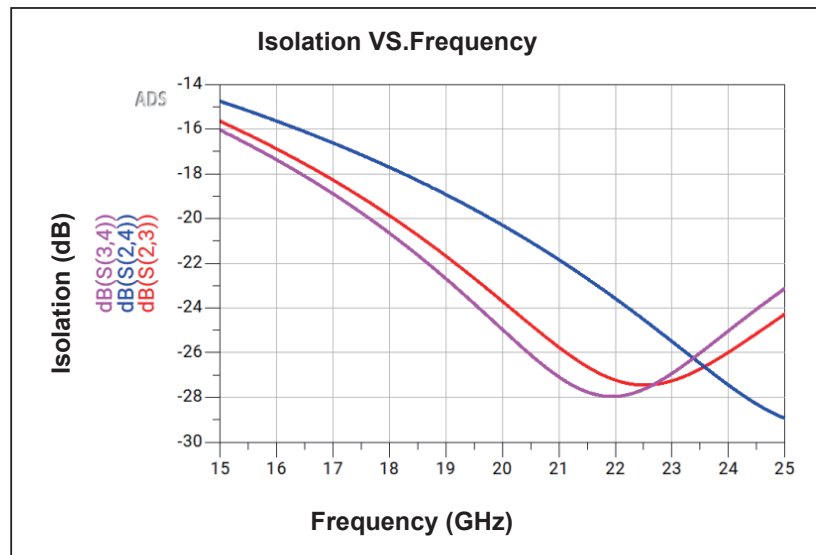
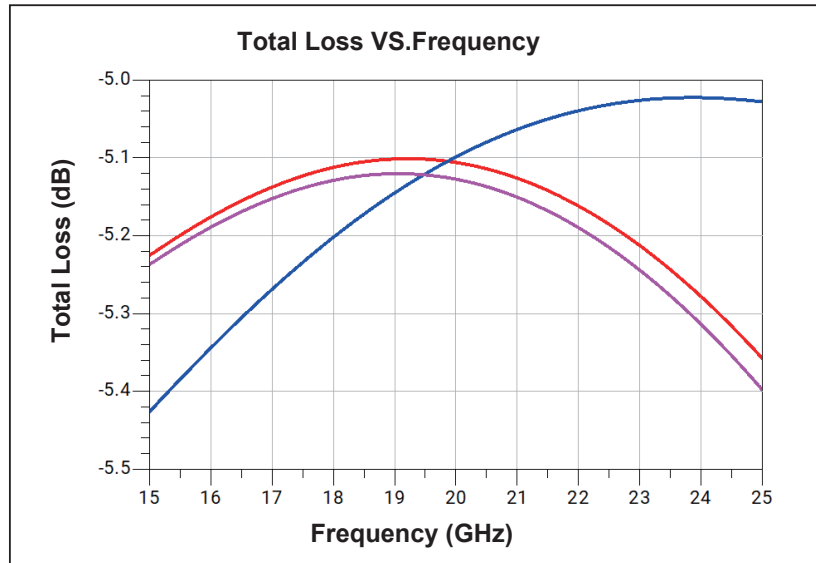
For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

PD2000U05W

Patented Product

Power Divider/Combiner

3-Way 0° 50Ω 15-25GHz



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 A1.0

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

PD2000U05W

Patented Product

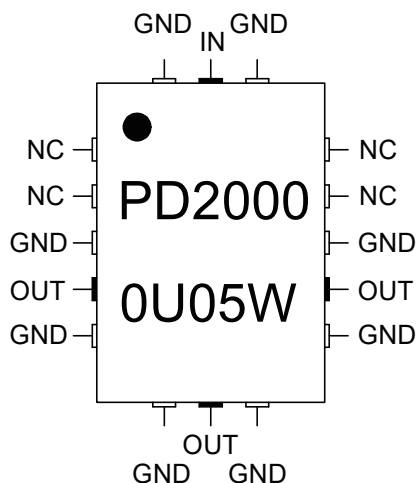
Power Divider/Combiner

3-Way 0° 50Ω 15-25GHz

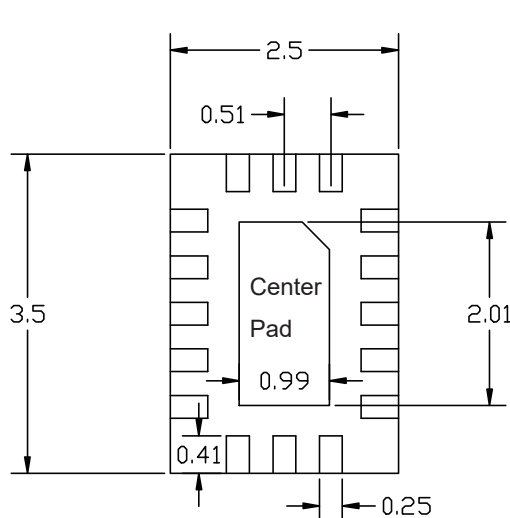


Outline Drawing

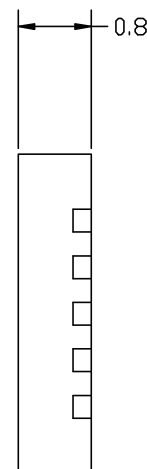
units:mm



TOP VIEW

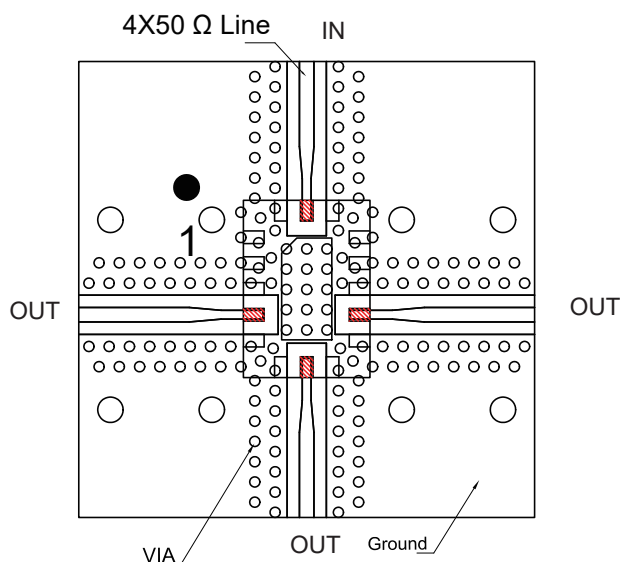


BOTTOM VIEW



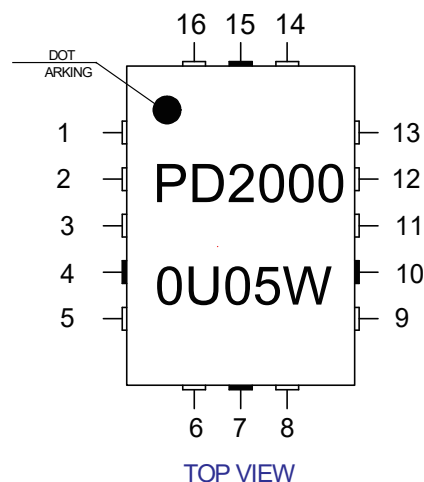
SIDE VIEW

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	OUT
5	GND
6	GND
7	OUT
8	GND
9	GND
10	OUT
11	GND
12	GND

Pin #	Connection
13	GND
14	GND
15	IN
16	GND
Center Pad	GND

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 A1.0

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