

PD3350U03W

Patented Product

Power Divider/Combiner

2-Way 0° 50Ω 0.7-6GHz

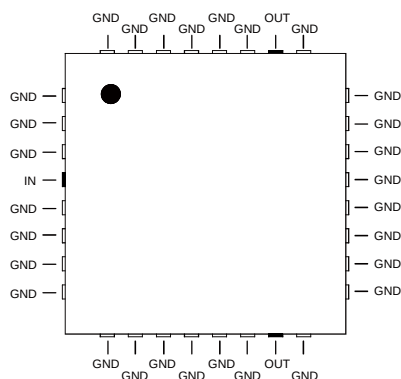
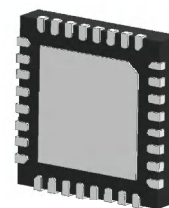


Features

- Small Size (5×5mm QFN package)
- No need external 100 Ω resistor
- Very Low Loss
- Tight Amplitude Balance
- High Isolation
- Low VSWR
- Good Repeatability
- High ESD level*
- Operating Temperature -40℃~105℃

Power handling

- 2.5 Watts as a divider
- 1.25 Watts as a combiner



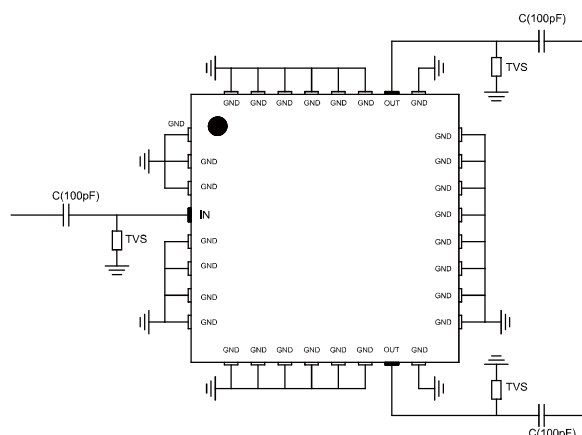
TOP VIEW

Applications

- WIMAX
- ISM
- Instrumentation
- Radar
- Satellite communications
- 5G

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.
3. Suggest to add a TVS Diode in parallel between Eletrode (with black color) and Capacitor of DC Blocker to provide ESD protection for the product. TVS Diode use ON Semiconductor's ESD9101 is recommended.



ESD Rating

Human Body Model (HBM): ≤ 800V in accordance with ANSI/ESD STM 5.1 - 2001

Machine Model (MM): ≤ 100V in accordance with ANSI/ESD STM 5.2 - 1999

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 A1.1

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

PD3350U03W

Patented Product

Power Divider/Combiner

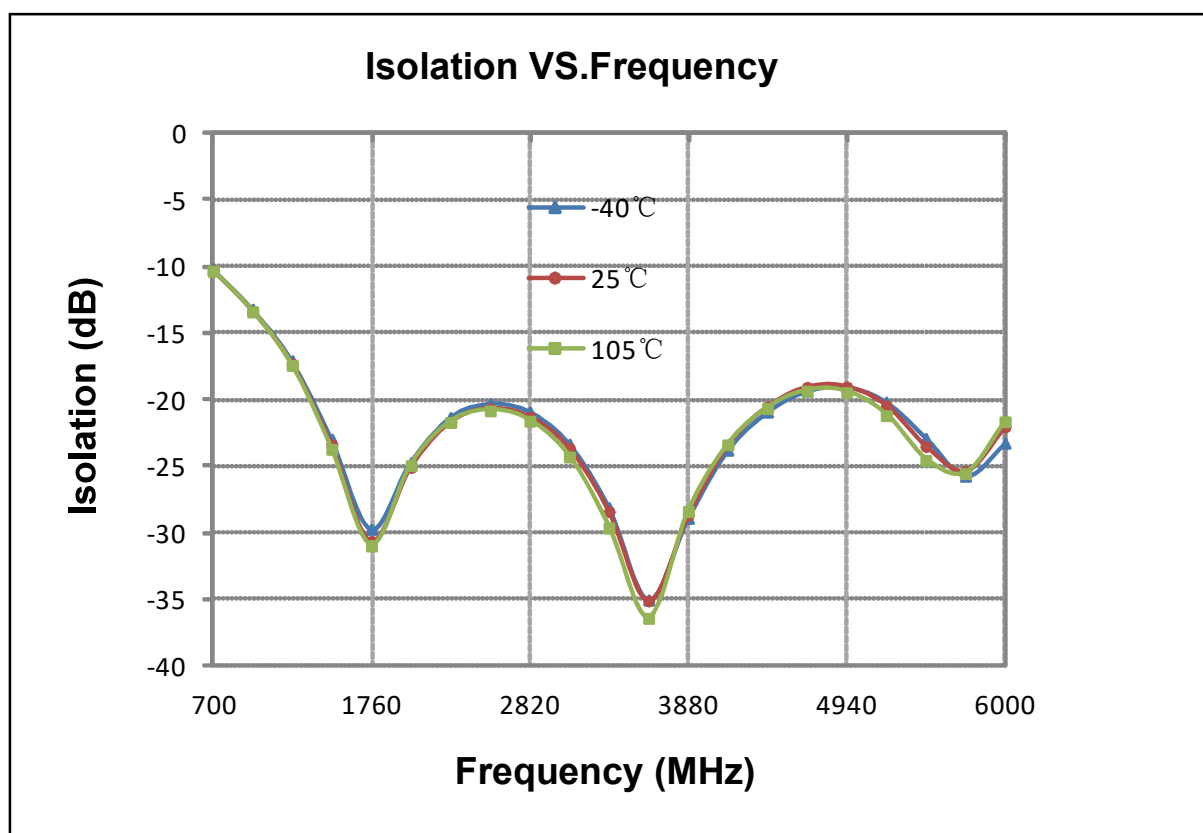
2-Way 0° 50Ω 0.7-6GHz



Electrical Specifications at 25° C

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	F	0.7		6.0	GHz
Insertion Loss (Above 3dB)	I_L		1.0	1.6	dB
Isolation	Isol	10	20		dB
Phase balance	ϕ_{bal}		1.5	5.0	deg
Amplitude balance	A_{bal}		± 0.1	± 0.3	dB
Input VSWR			1.40	1.65	
Output VSWR			1.20	1.40	

Typical Performance (-40°C, 25°C, 105°C: 0.7-6GHz)



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 A1.1

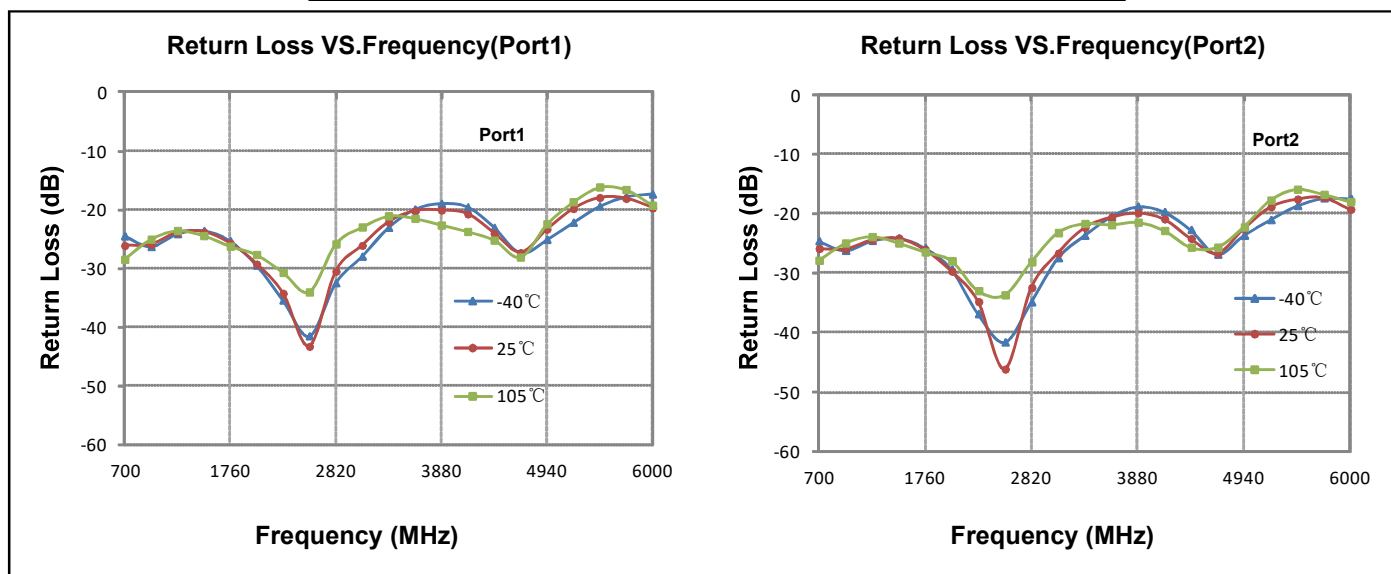
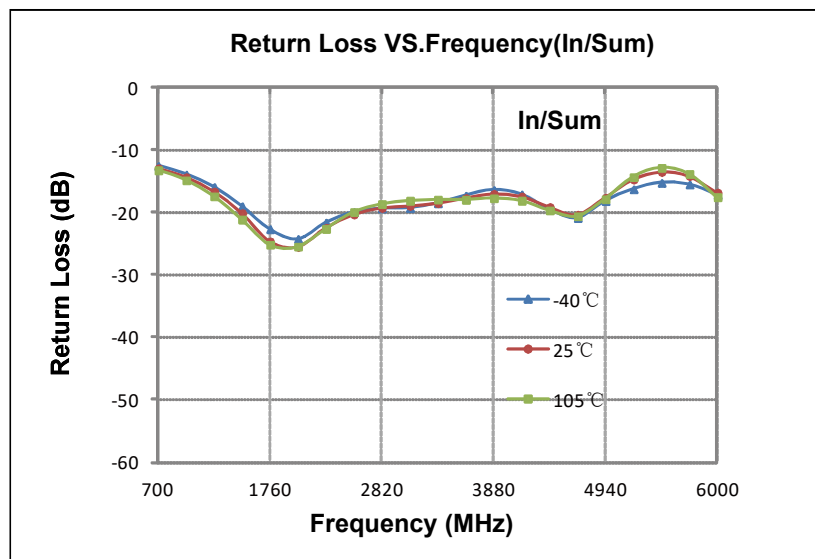
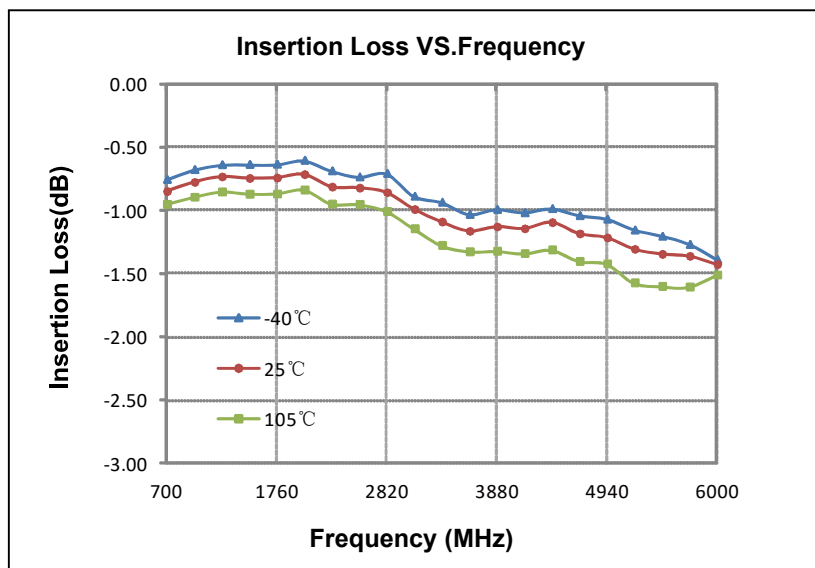
For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

PD3350U03W

Patented Product

Power Divider/Combiner

2-Way 0° 50Ω 0.7-6GHz



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 A1.1

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

PD3350U03W

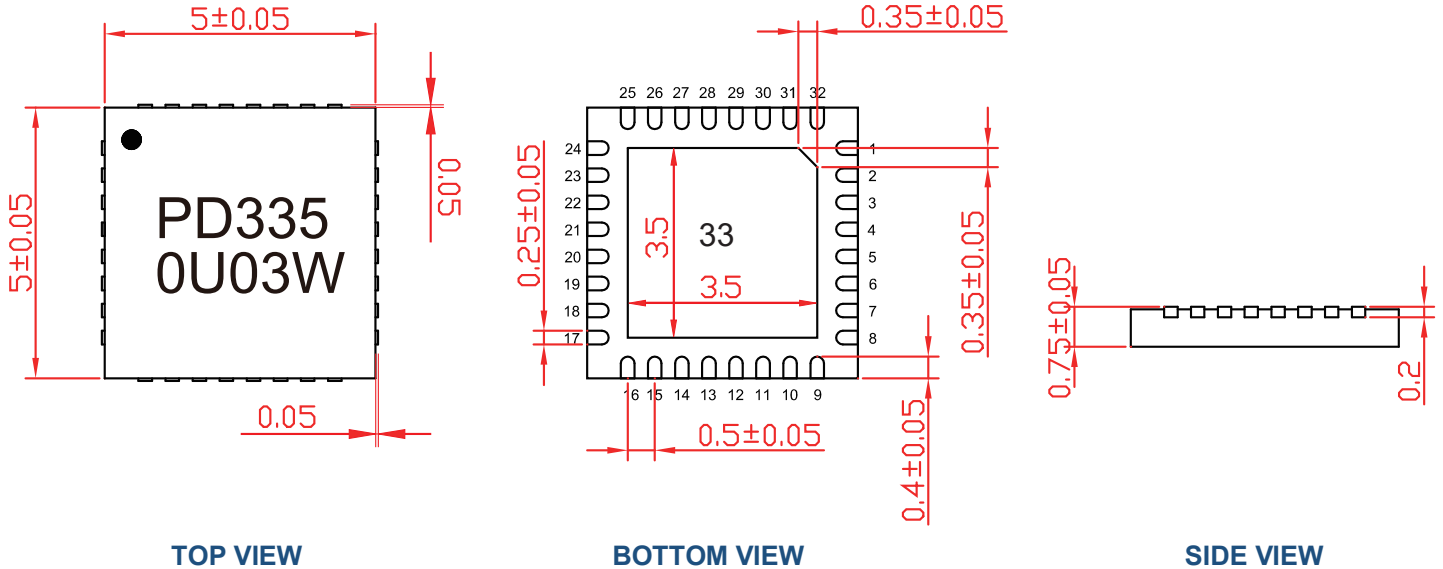
Patented Product

Power Divider/Combiner

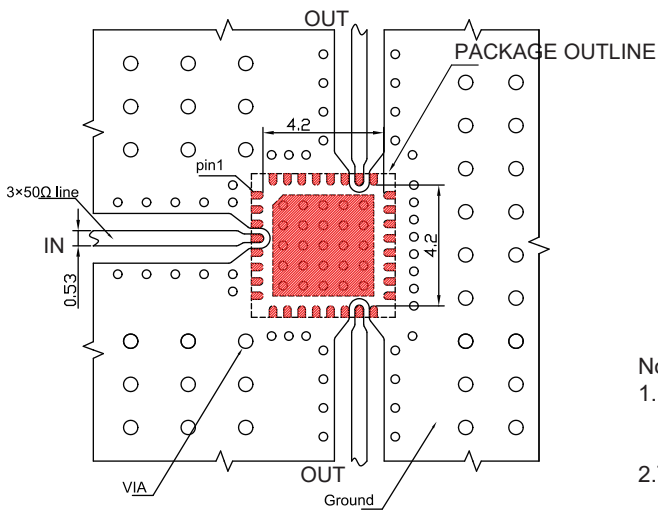
2-Way 0° 50Ω 0.7-6GHz



Outline Drawing units:mm

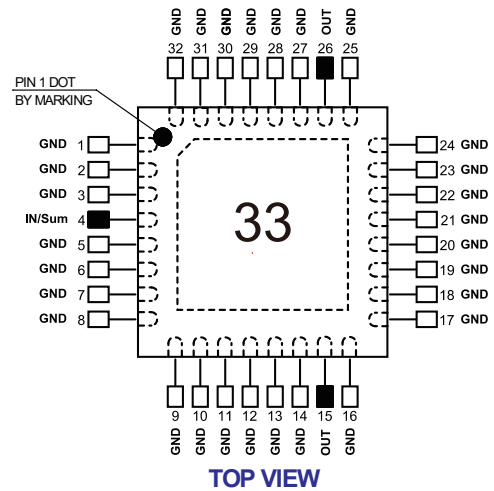


Land Pattern



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.



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

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

Pin #	Connection
25	GND
26	OUT
27	GND
28	GND
29	GND
30	GND
31	GND
32	GND
33	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 A1.1

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