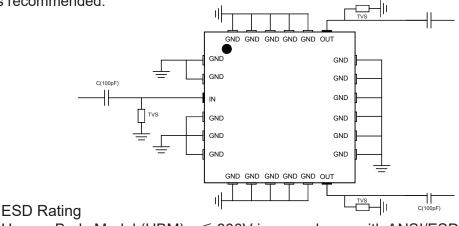
PD0715U03W **Preliminary Datasheet** Yantel **Power Divider/Combiner** 2-Way 0° 1.8-12.5 GHz 50Ω Features • Small Size (4×4mm QFN package) No need external 100 Ω resistor Very Low Loss Tight Amplitude Balance High Isolation Low VSWR PD071 Good Repeatability 5U03W High ESD level* Operating Temperature -50°C~85°C Power handling 1.85 Watts as a divider 0.93 Watts as a combiner REACH GND GND GND OUT **Applications** • WĪMĀX GND - GND _ GND ISM GND IN - GND Instrumentation **TOP VIEW** GND - GND Radar GND - GND Satellite communications I - GND GND -

• 5G

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

GND

- 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.



Human Body Model (HBM): \leq 800V in accordance with ANSI/ESD STM 5.1 - 2001 Machine Model (MM): \leq 100V in accordance with ANSI/ESD STM 5.2 - 1999

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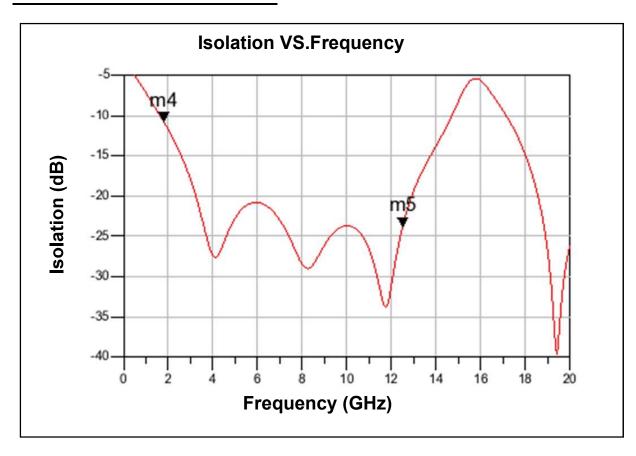
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Electrical Specifications at 25° C

Parameter	Symbol	Min	Тур	Мах	Unit
Frequency Range	F	1.8		12.5	GHz
Insertion Loss (Above 3dB)	ΙL		1.0	2.0	dB
Isolation	Isol	10	20		dB
Phase balance	Ø _{bal}		3	5	deg
Amplitude balance	A _{bal}		±0.2	±0.4	dB
Input VSWR			1.45		
Output VSWR			1.45		

Typical Performance (25°C: 1.8-12.5 GHz)

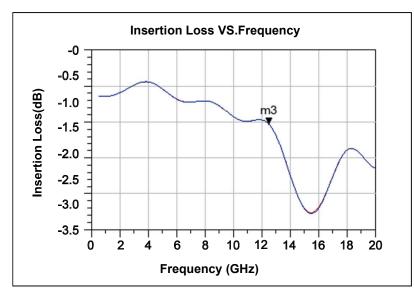


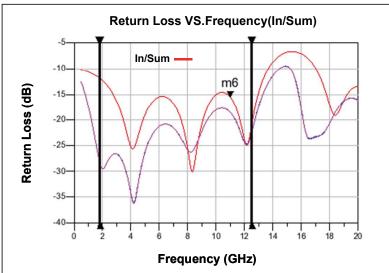
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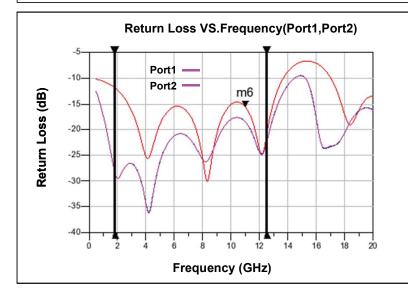
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PD0715U03W Preliminary Datasheet Power Divider/Combiner 2-Way 0° 50Ω 1.8-12.5 GHz









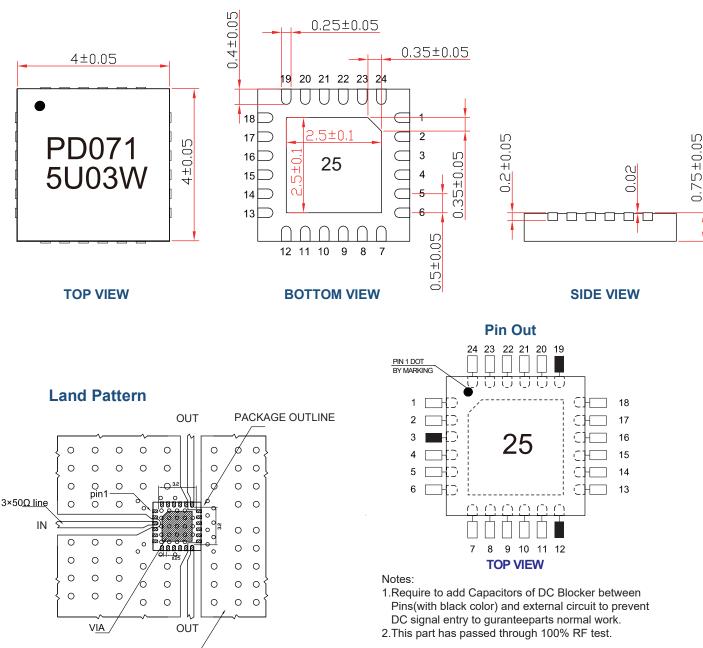
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PD0715U03W Preliminary Datasheet Power Divider/Combiner 2-Way 0° 50Ω 1.8-12.5 GHz



Outline Drawing units:mm



NOTE:

1. 50 Ω line width is shown above designing from RO4350B dieletric thickness 0.254mm; copper 1/2 OZ

Ground

- 2. Bottom side of the PCB is continuous ground plane.
- 3. All dimensions shown in mm.

Pin # Connection Pin # Connection 13 GND GND GND 14 2 GND 3 IN 15 GND GND 4 16 GND GND 17 GND 5 6 GND 18 GND GND 19 OUT 7 8 GND 20 GND 9 GND 21 GND 10 GND 22 GND GND 23 GND 11 24 12 OUI GND 25 GND

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