

PD2275U03WD

Preliminary Datasheet

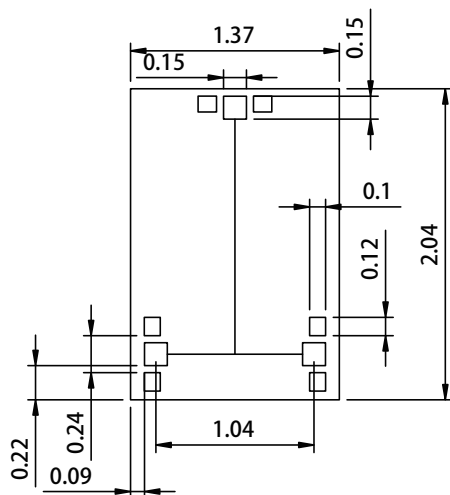
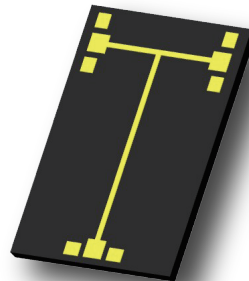
Power Divider/Combiner

2-Way 0° 50Ω 3.0-42.5 GHz



Features

- No need external 100 Ω resistor
- Very Low Loss
- Tight Amplitude Balance
- High Isolation
- Low VSWR
- Good Repeatability
- High ESD level*
- Operating Temperature -40°C~85°C
- Power handling
 - 2.5 Watts as a divider
 - 1.25 Watts as a combiner



units:mm

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 Electrode (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

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Rev A1

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

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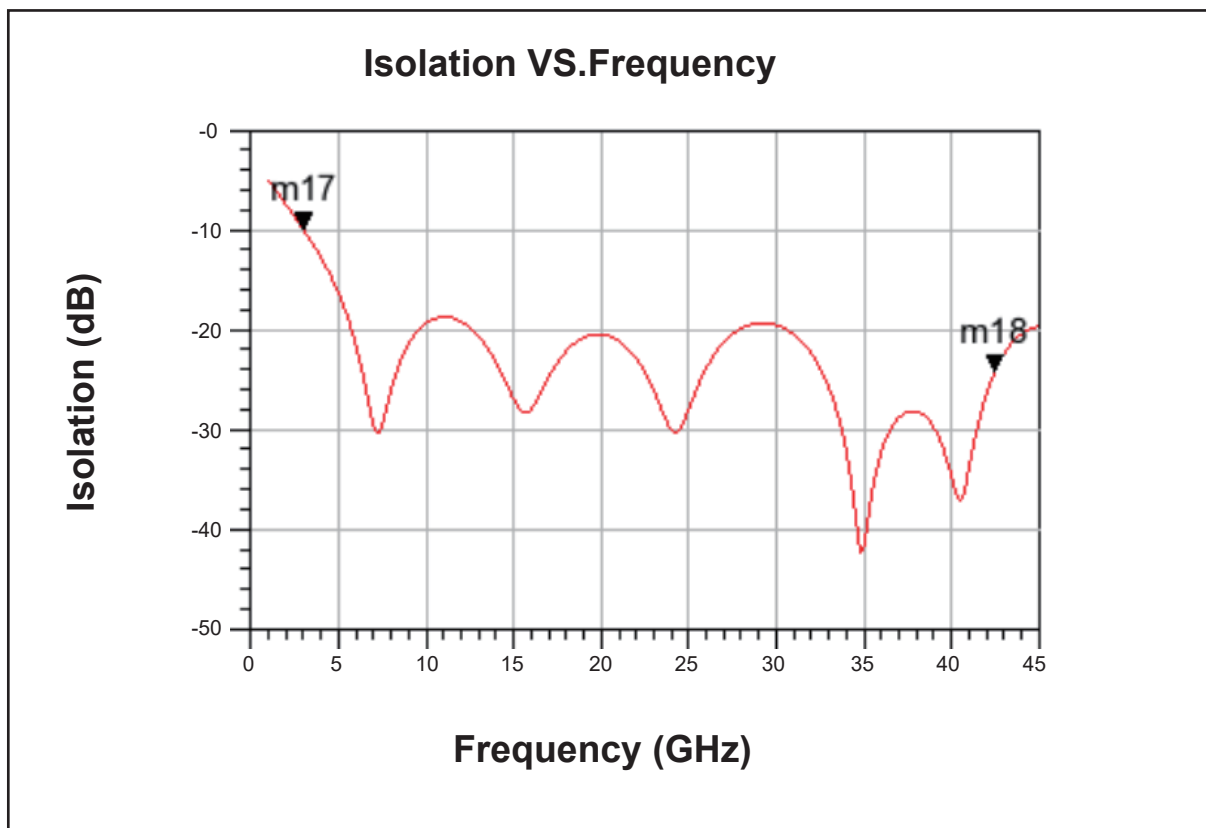
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Electrical Specifications at 25° C

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	F	3.0		42.5	GHz
Insertion Loss (Above 3dB)	I_L		1.3	2.2	dB
Isolation	Isol	10	20		dB
Phase balance	\varnothing_{bal}		3	5	deg
Amplitude balance	A_{bal}		± 0.3	± 0.5	dB
Input VSWR			1.45	1.9	
Output VSWR			1.30	1.50	

Typical Performance (-40°C, 25°C, 85°C, 125°C: 3.0-42.5 GHz)



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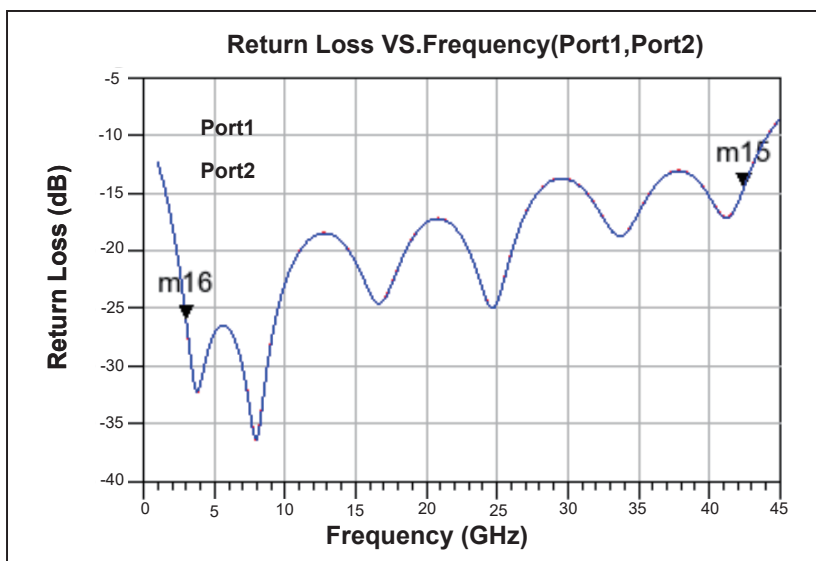
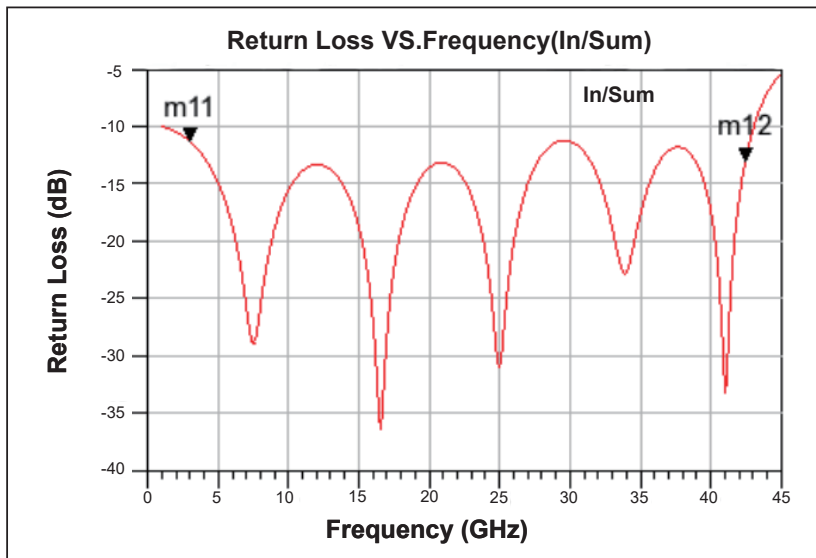
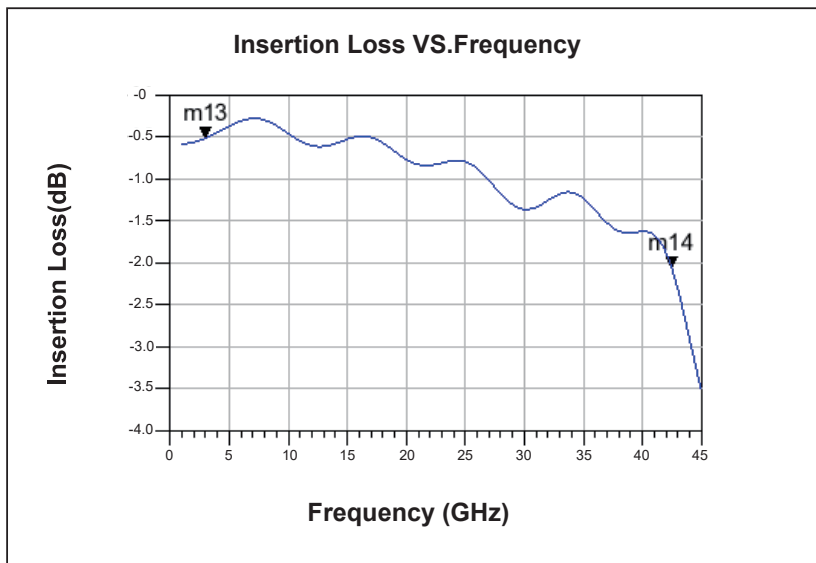
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