

Data Sheet

PD2150U03-090

Power Divider/Combiner

2-Way 0° 50Ω 1.90-2.35 GHz

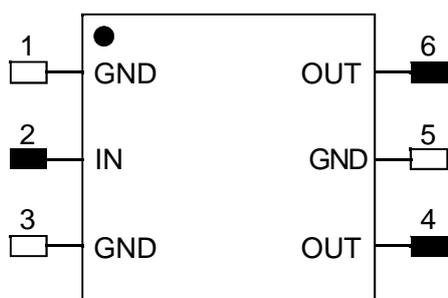
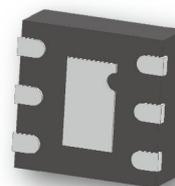


Features

- Small Size (2x2mm DFN package)
- No need external 100 Ω resistor
- Very Low Loss
- Tight Amplitude Balance
- High Isolation
- Low VSWR
- Good Repeatability
- Tape & Reel
- Operating Temperature -40°C~85°C

Power handling

- 2 Watts as a divider
- 1 Watts as a combiner



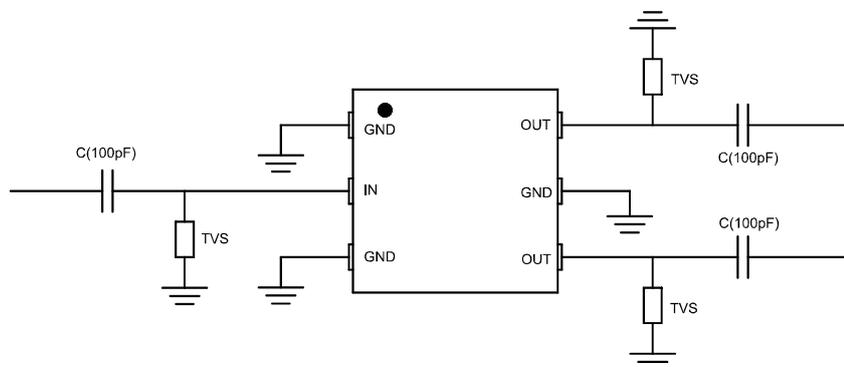
TOP VIEW

Applications

- Wireless communications
- WLAN / WiMax
- SAT Radio
- ISM band instrument
- Information System for Automotive Safety

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

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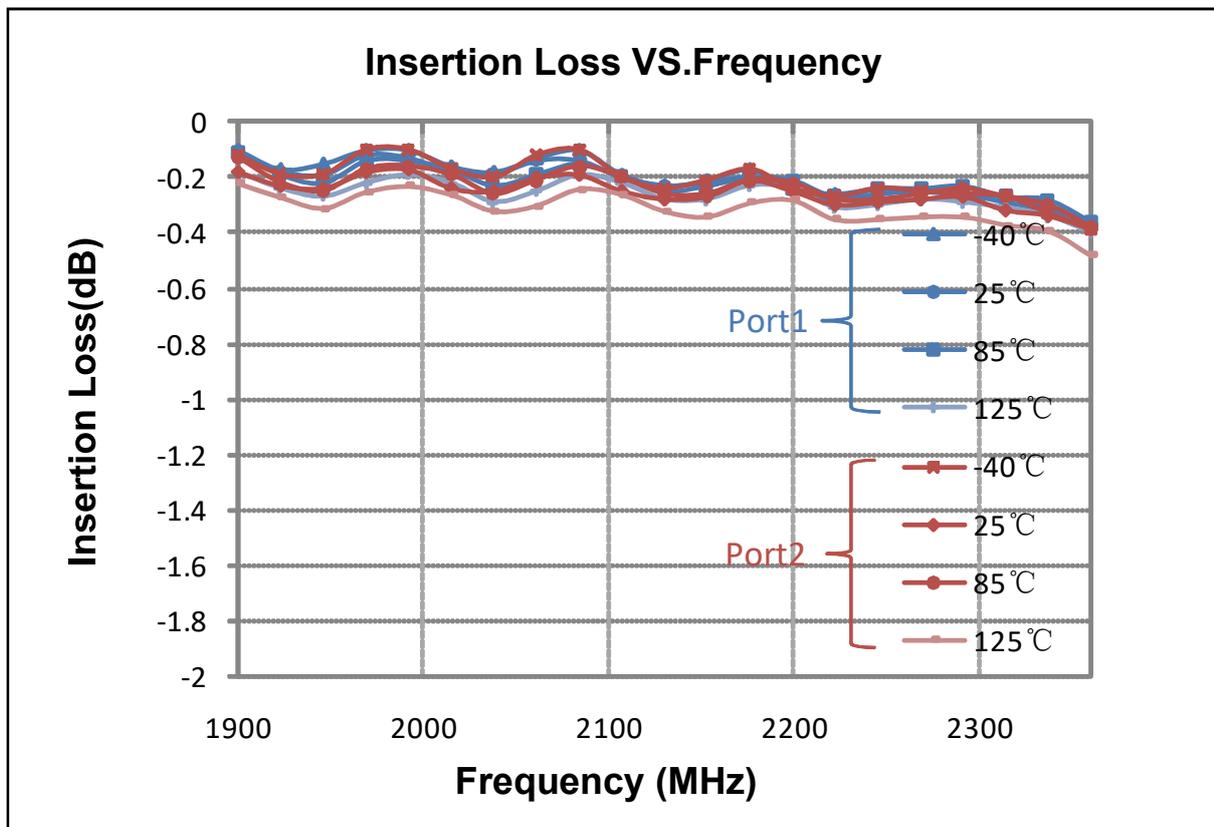
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Electrical Specifications at 25° C

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	F	1900		2350	MHz
Insertion Loss (Above 3dB)	I_L		0.3	0.5	dB
Isolation	Isol	15	20		dB
Phase balance	ϕ_{bal}		1.5	2.0	deg
Amplitude balance	A_{bal}		± 0.1	± 0.15	dB
Input VSWR			1.3	1.5	
Output VSWR			1.15	1.25	

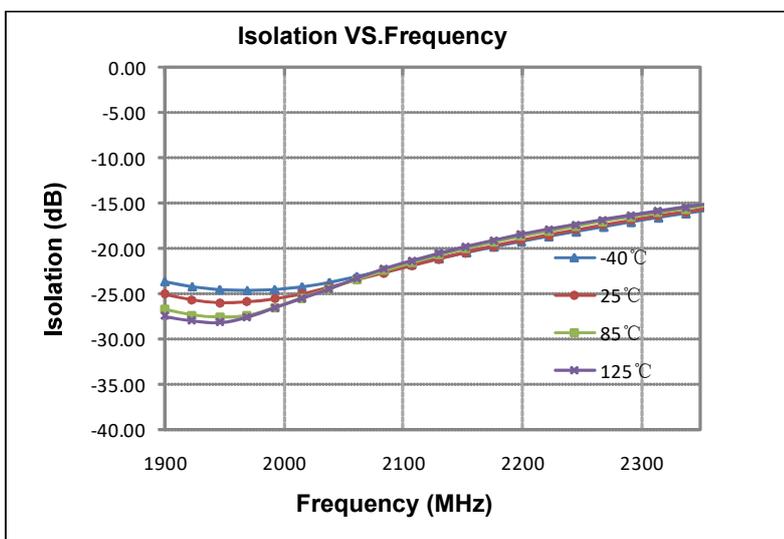
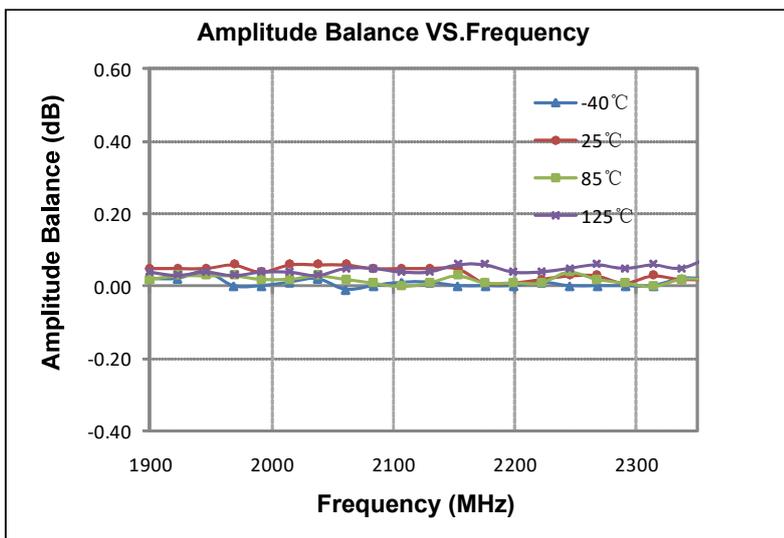
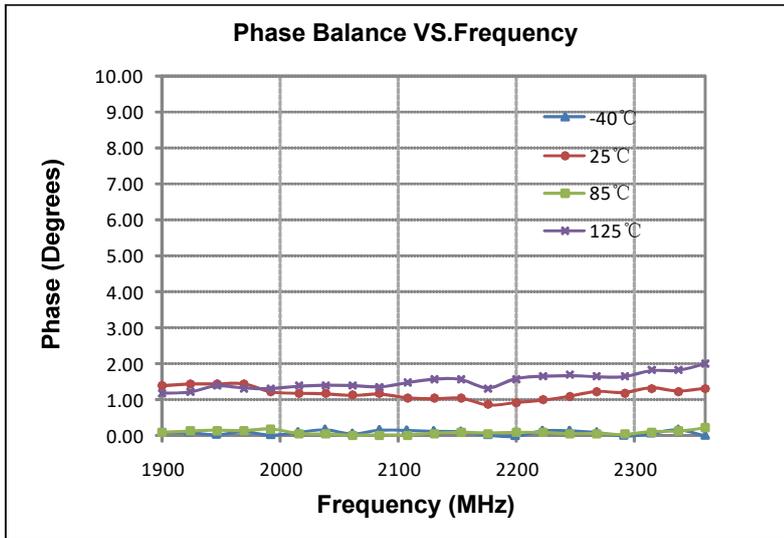
Typical Performance (-40°C, 25°C, 85°C, 125°C: 1900-2350 MHz)



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