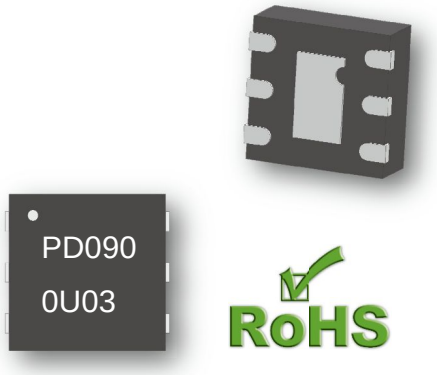
Data Sheet
PD0900U03-070
Power Divider/Combiner
2-Way 0° 50Ω 800-1000 MHz

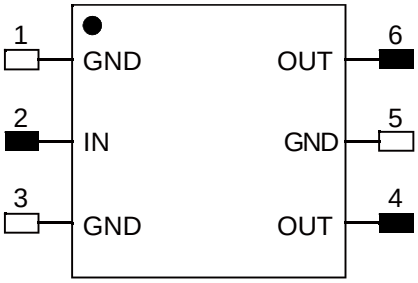
Features

- Small Size (2×2mm DFN package)
- Passive RF IC, no need external DC power supply
- No need external 100 Ω resistor
- Very Low Loss
- Tight Amplitude Balance
- High Isolation
- Low VSWR
- Good Repeatability
- Tape & Reel

  Operating Temperature -40℃~85℃

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





TOP VIEW

Applications

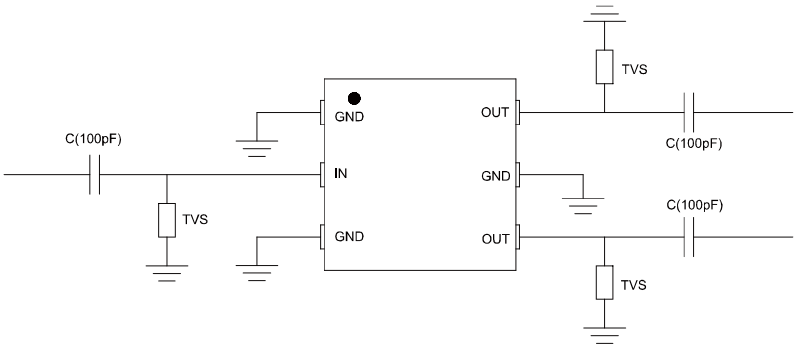
- Wireless communications
- WLAN / WiMax
- SAT Radio
- ISM band instrument
- Information System for Automotive Safety

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 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

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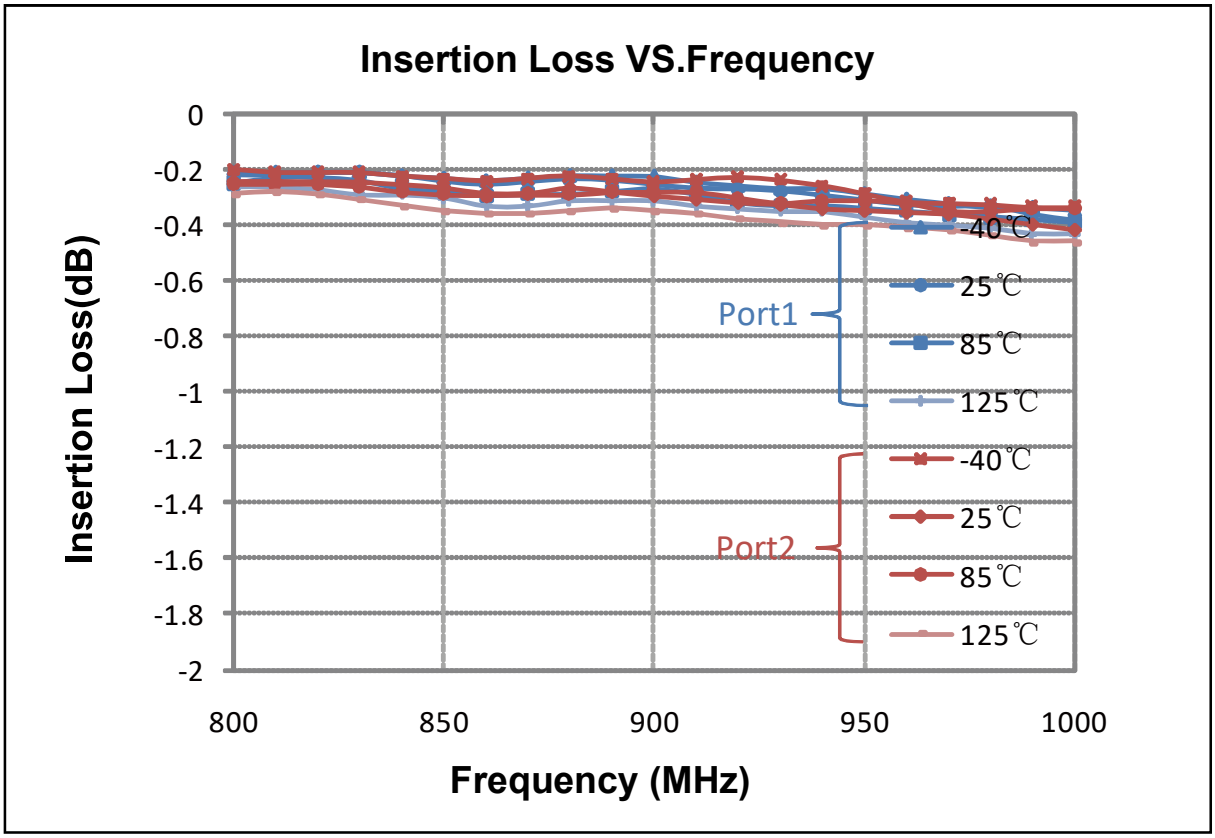
Electrical Specifications at 25º C

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	F	800		1000	MHz
Insertion Loss (Above 3dB)	I_L		0.35	0.5	dB
Isolation	Isol	17	21		dB
Phase balance	$ø_{bal}$		1.5	2.0	deg
Amplitude balance	A_{bal}		±0.05	±0.10	dB
Input VSWR			1.2	1.35	
Output VSWR			1.1	1.25	

Typical Performance (-40°C, 25°C, 85°C, 125°C: 800-1000 MHz)



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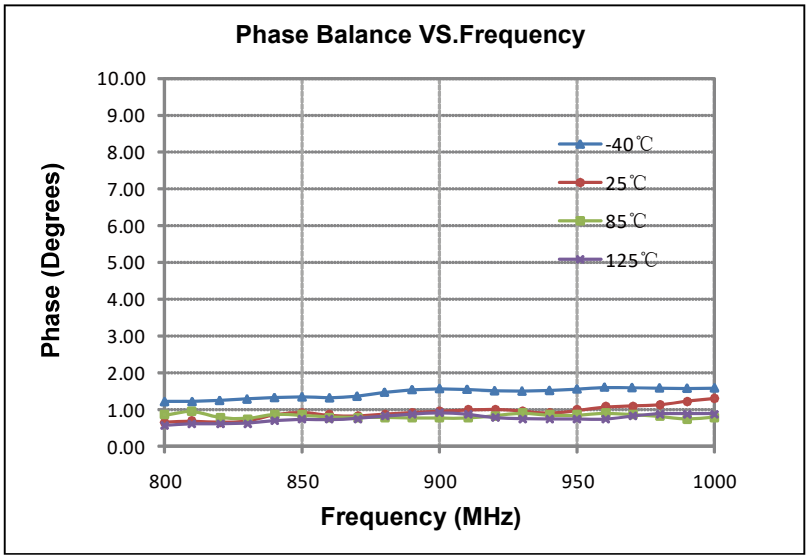

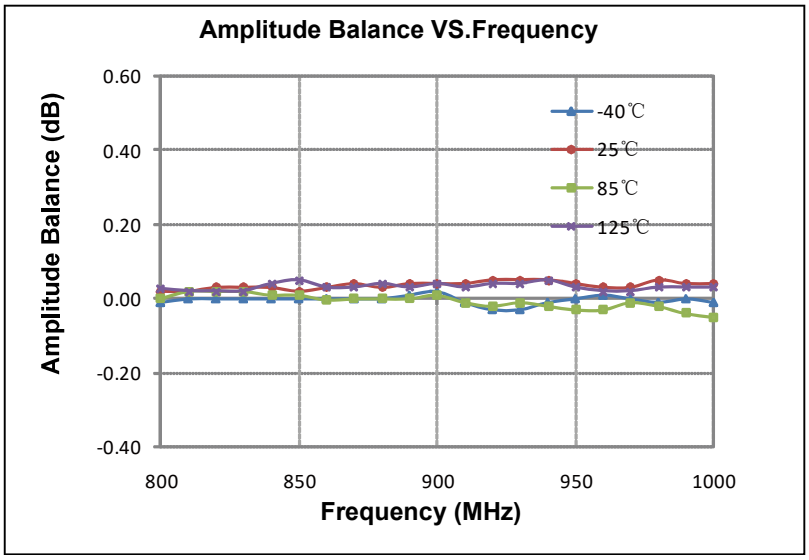

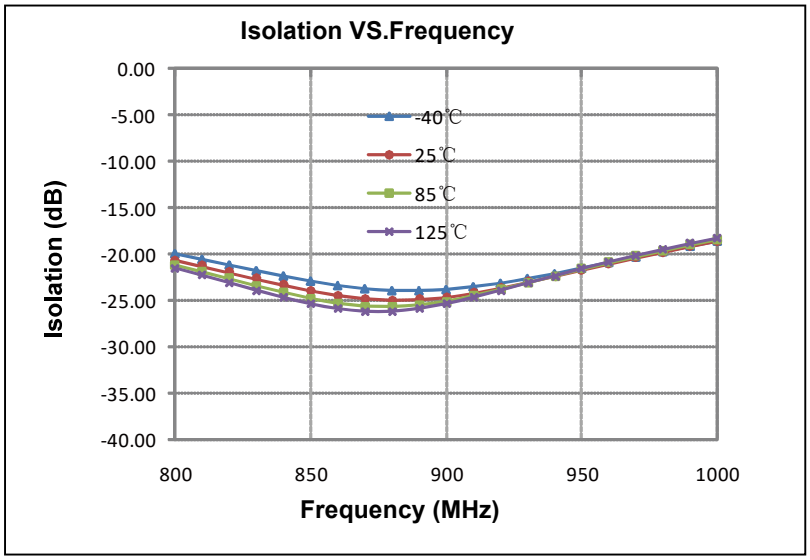

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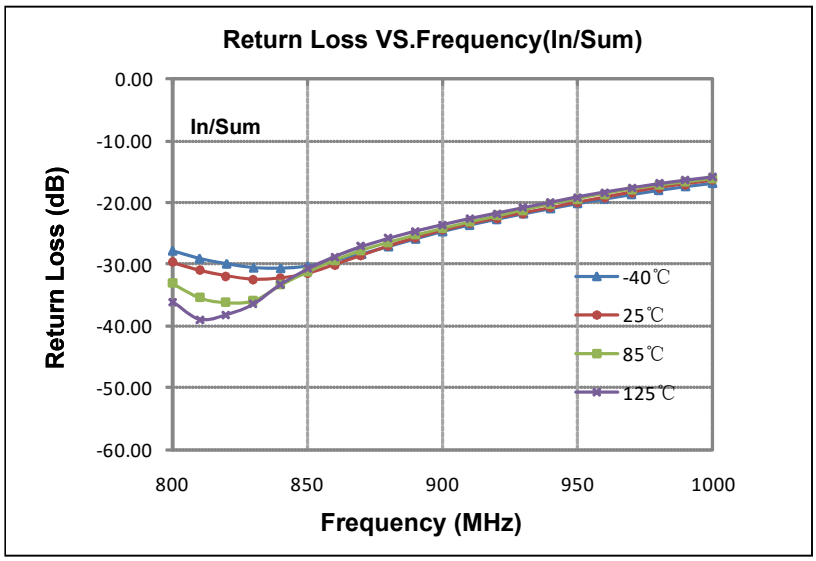

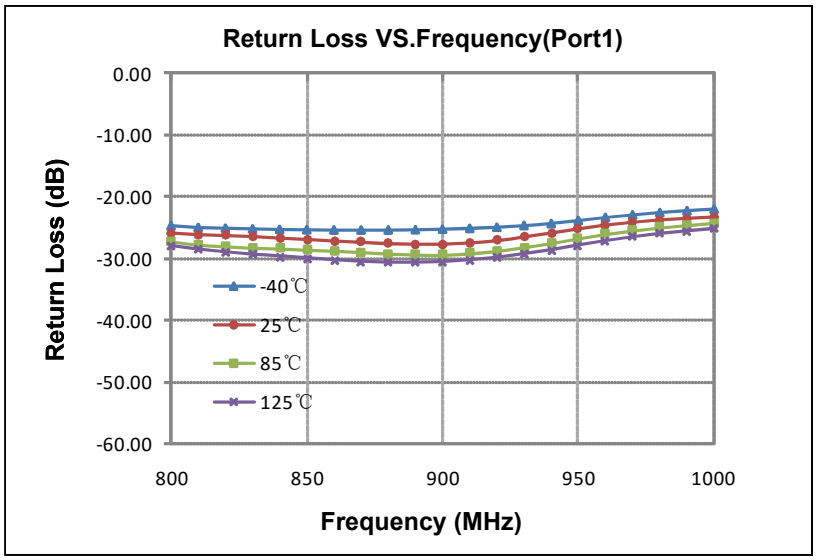

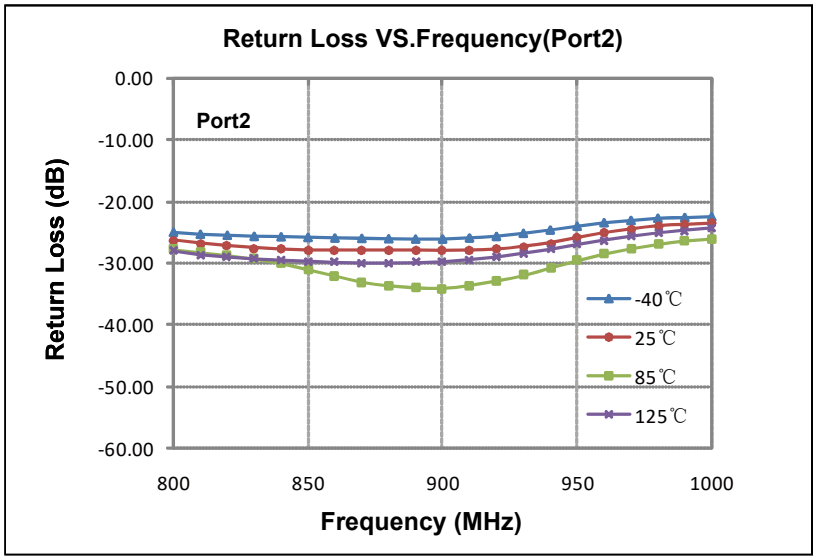

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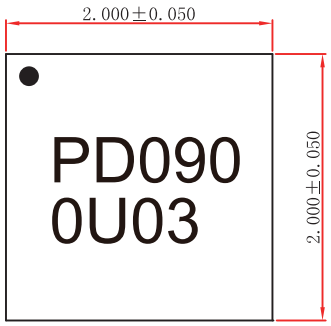
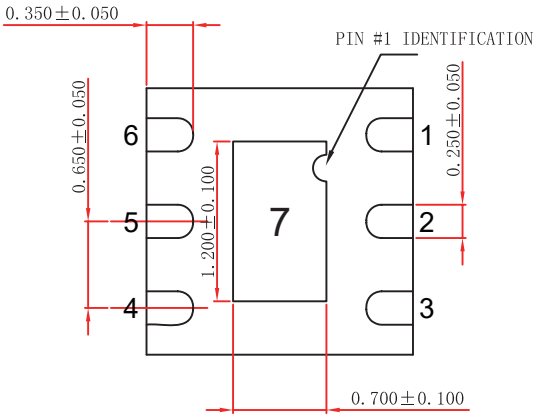
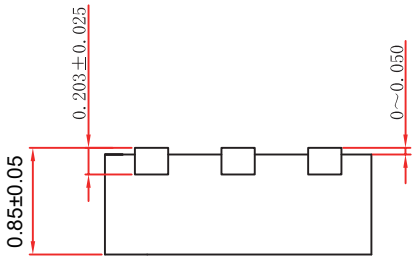
Outline Drawing



TOP VIEW

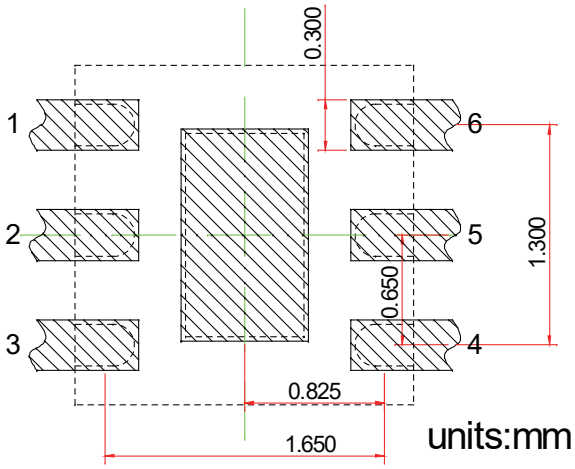


BOTTOM VIEW



SIDE VIEW

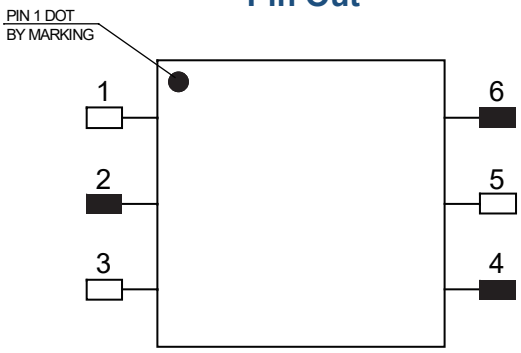
Land Pattern



Recommended Land Pattern
Top View

Notes: All dimensions show in millimeters

Pin Out



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 guranteeparts normal work.
2.This part has passed through 100% RF test.

Pin #	Connection
1	GND
2	IN
3	GND
4	OUT
5	GND
6	OUT
7	GND

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