

# Data Sheet

## PD3550U03-110

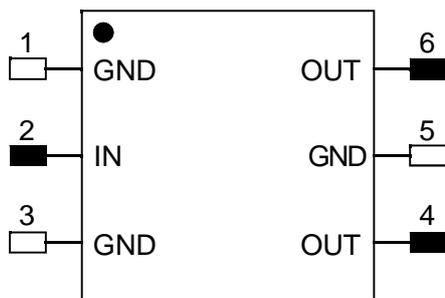
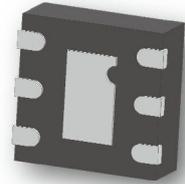
### Power Divider/Combiner

#### 2-Way 0° 50Ω 3.3-3.8 GHz



### Features

- Small Size (2x2mm 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°C~85°C
- Power handling
  - 2 Watts as a divider
  - 1 Watts as a combiner



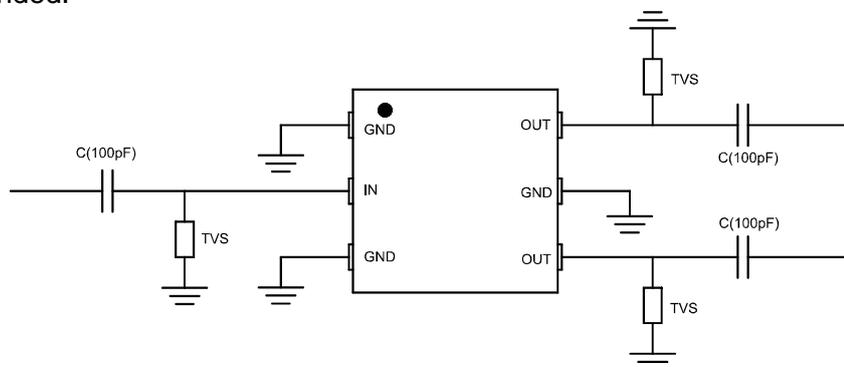
TOP VIEW

### 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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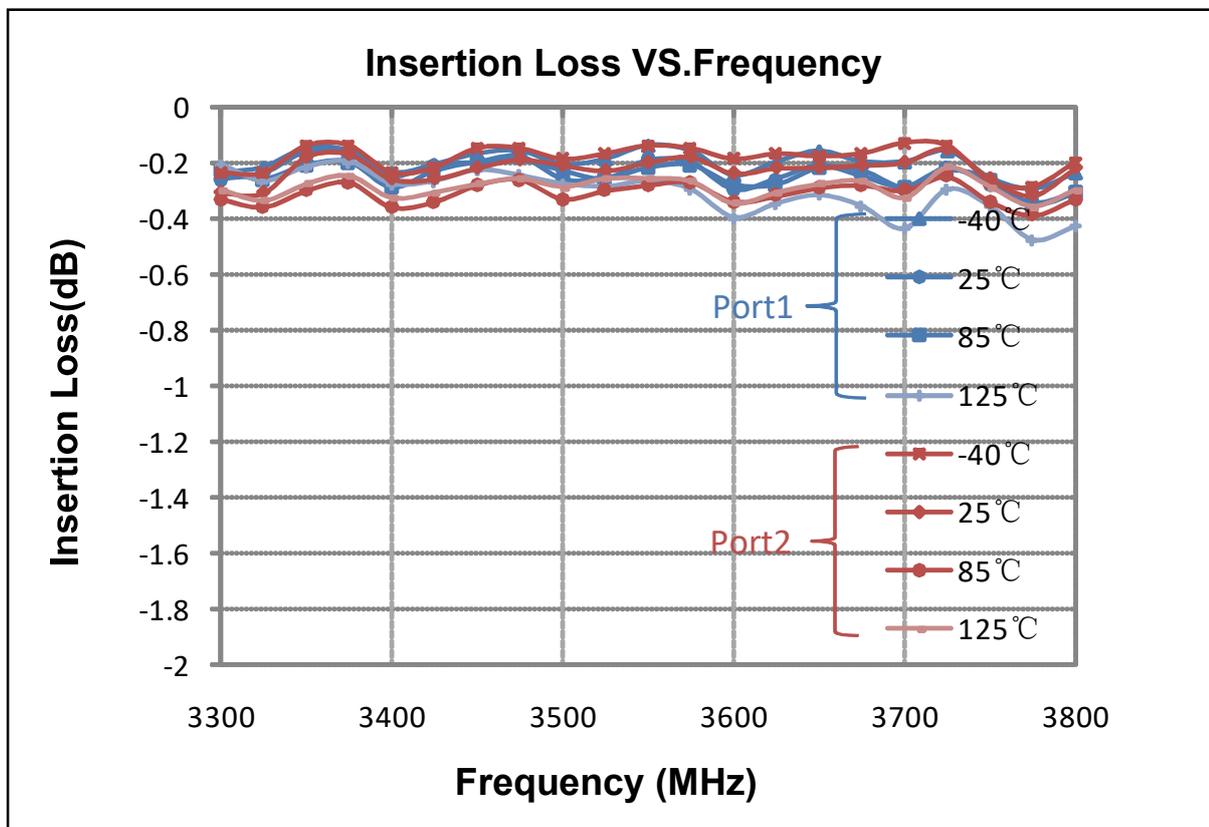
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### Electrical Specifications at 25° C

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	F	3300		3800	MHz
Insertion Loss (Above 3dB)	$I_L$		0.35	0.5	dB
Isolation	Isol	17	20		dB
Phase balance	$\phi_{bal}$		1.0	2.0	deg
Amplitude balance	$A_{bal}$		$\pm 0.1$	$\pm 0.2$	dB
Input VSWR			1.3	1.55	
Output VSWR			1.2	1.2	

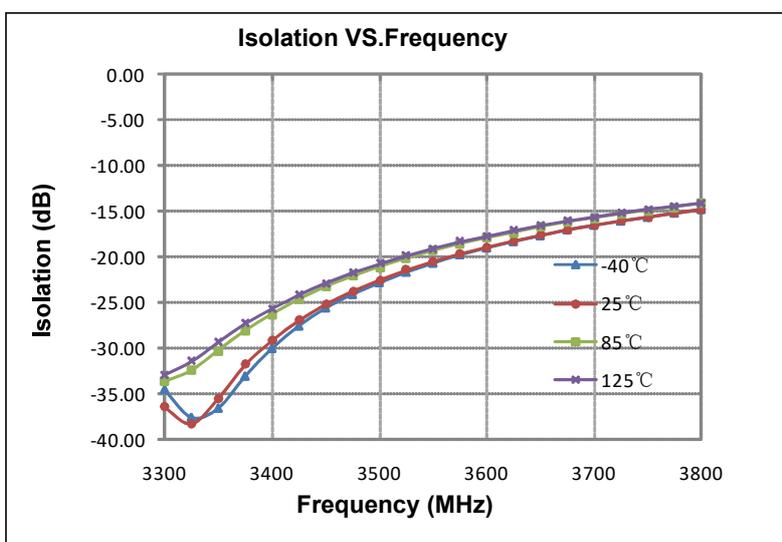
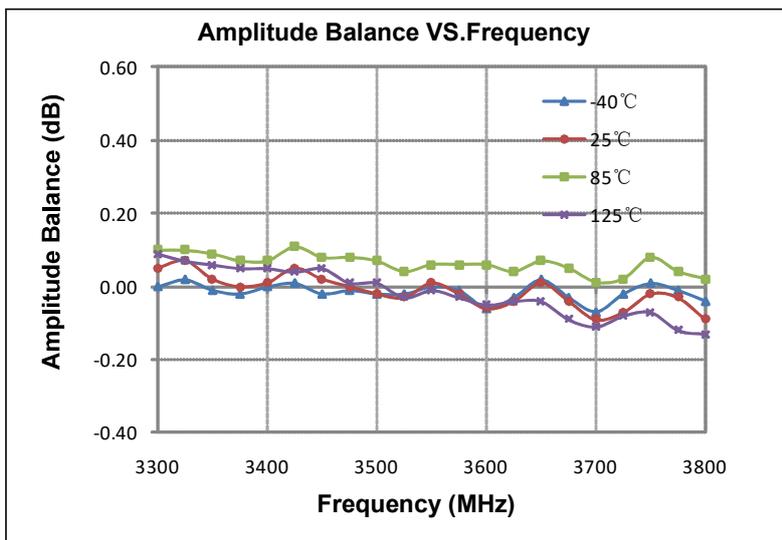
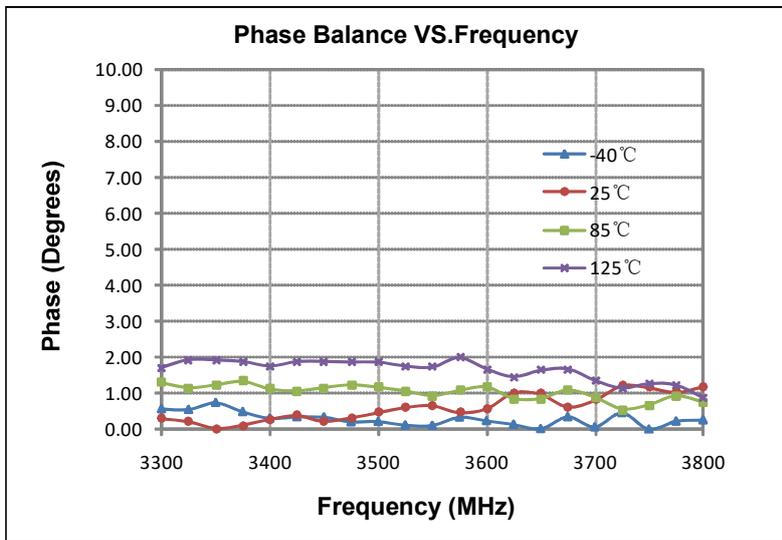
### Typical Performance (-40°C, 25°C, 85°C, 125°C: 3300-3800 MHz)



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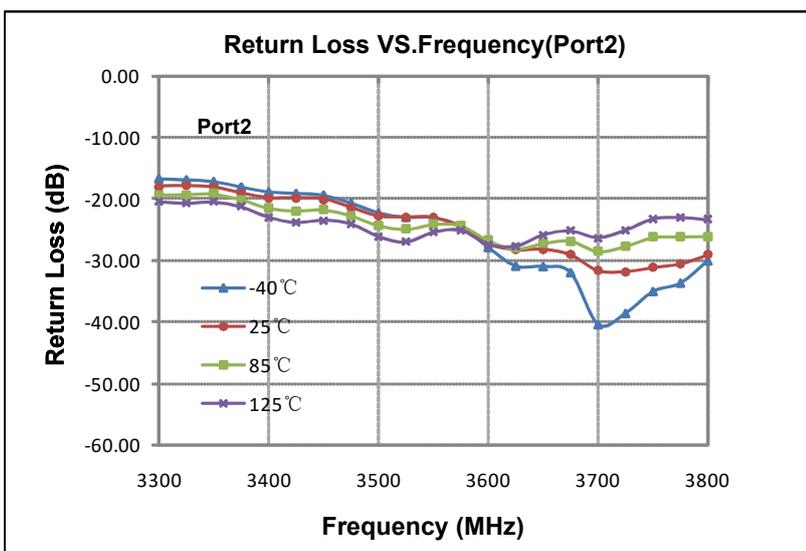
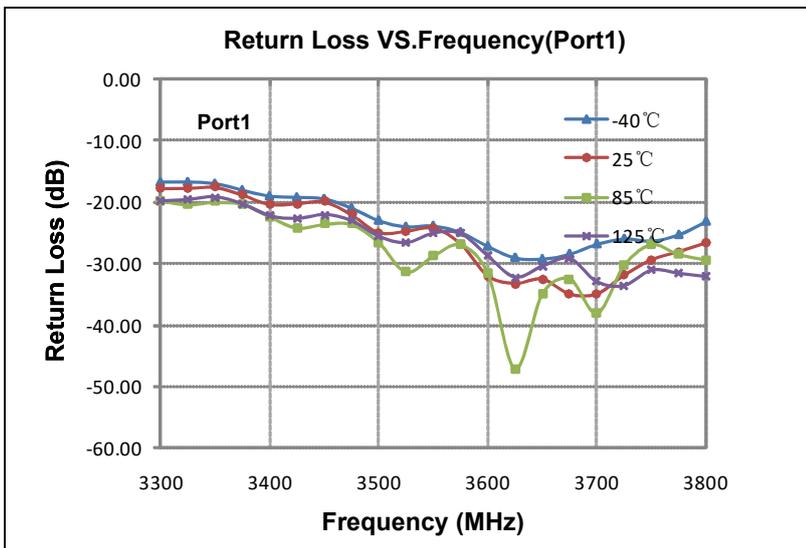
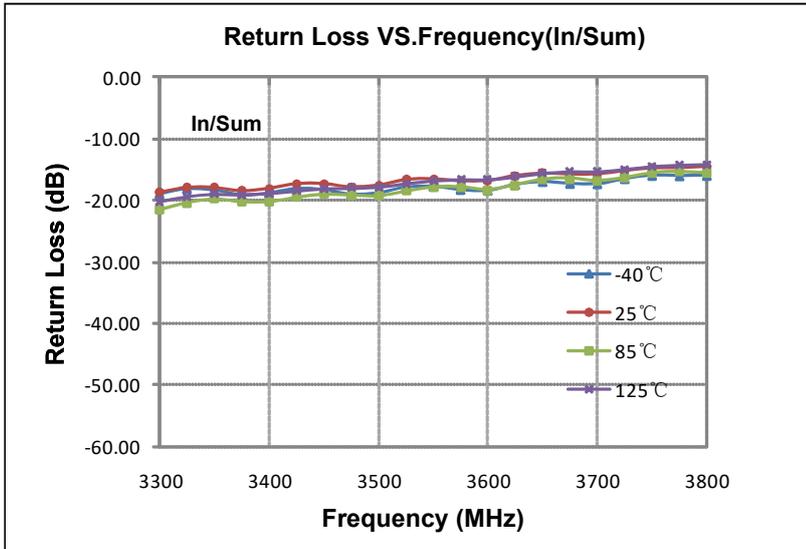
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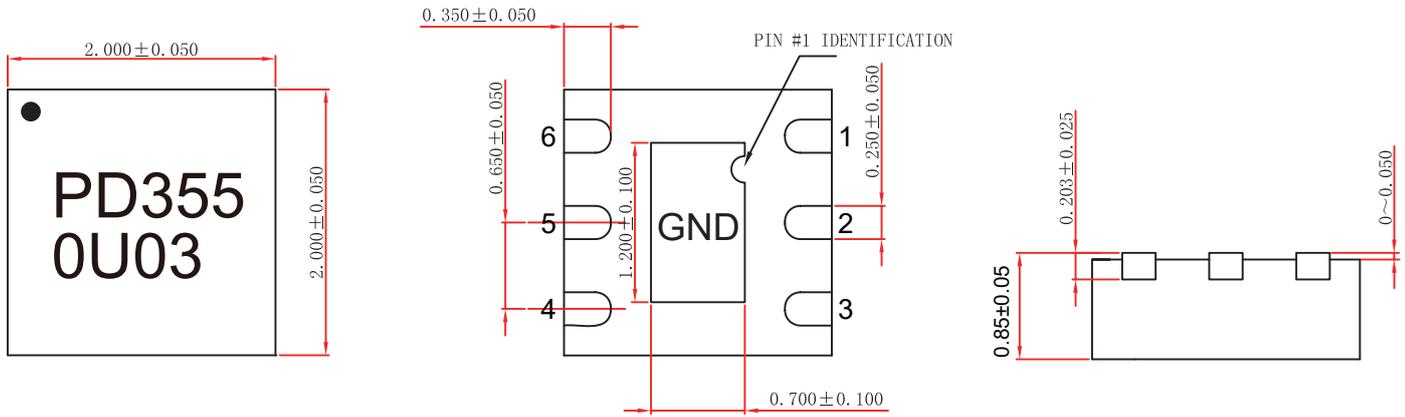
# Data Sheet

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### Outline Drawing

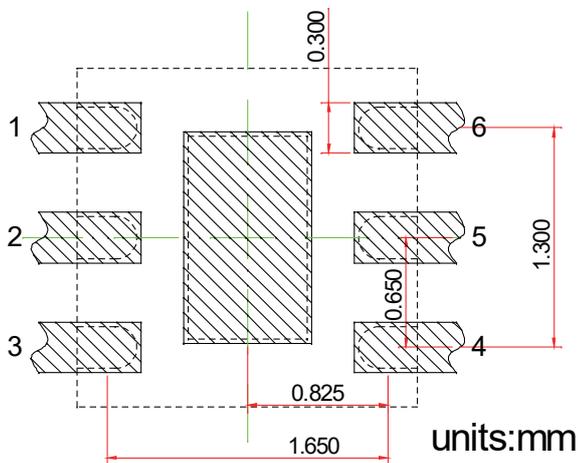


TOP VIEW

BOTTOM VIEW

SIDE VIEW

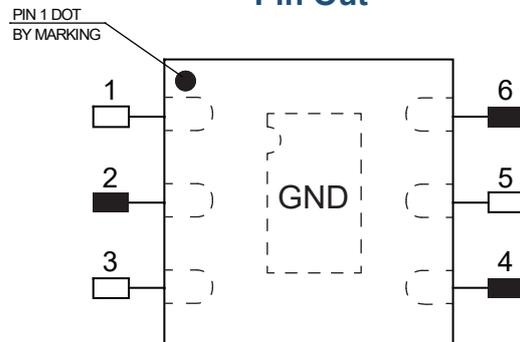
### Land Pattern



### 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 guarantee parts 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
Center Pad	GND