

Data Sheet

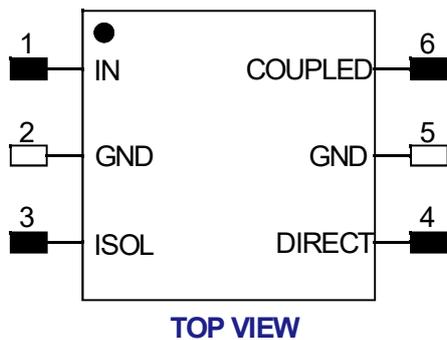
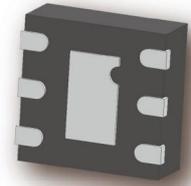
HC2500U03-055

3dB 90° Coupler IC
2.30 GHz-2.65 GHz



Features

- Small Size (2×2mm)
- Very Low Loss
- Tight Amplitude Balance
- High Isolation
- Low VSWR
- Good Repeatability
- Tape & Reel
- Power handling
 - 4 Watts as a divider
 - 2 Watts as a combiner



Applications

- Phase shifter / Attenuator
- Balanced amplifier / LNA configurations
- Modulators
- Mixers
- Power combining /dividing

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.

Electrical Specifications at 25° C

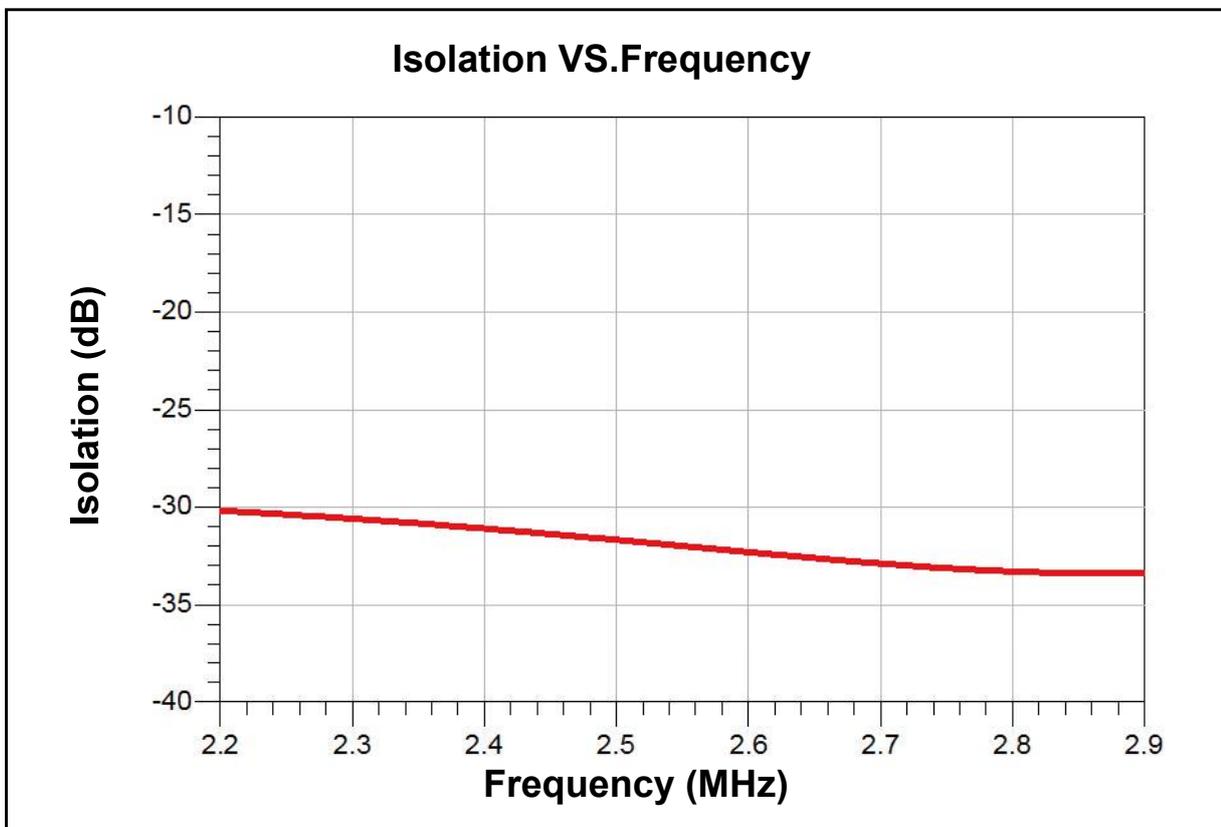
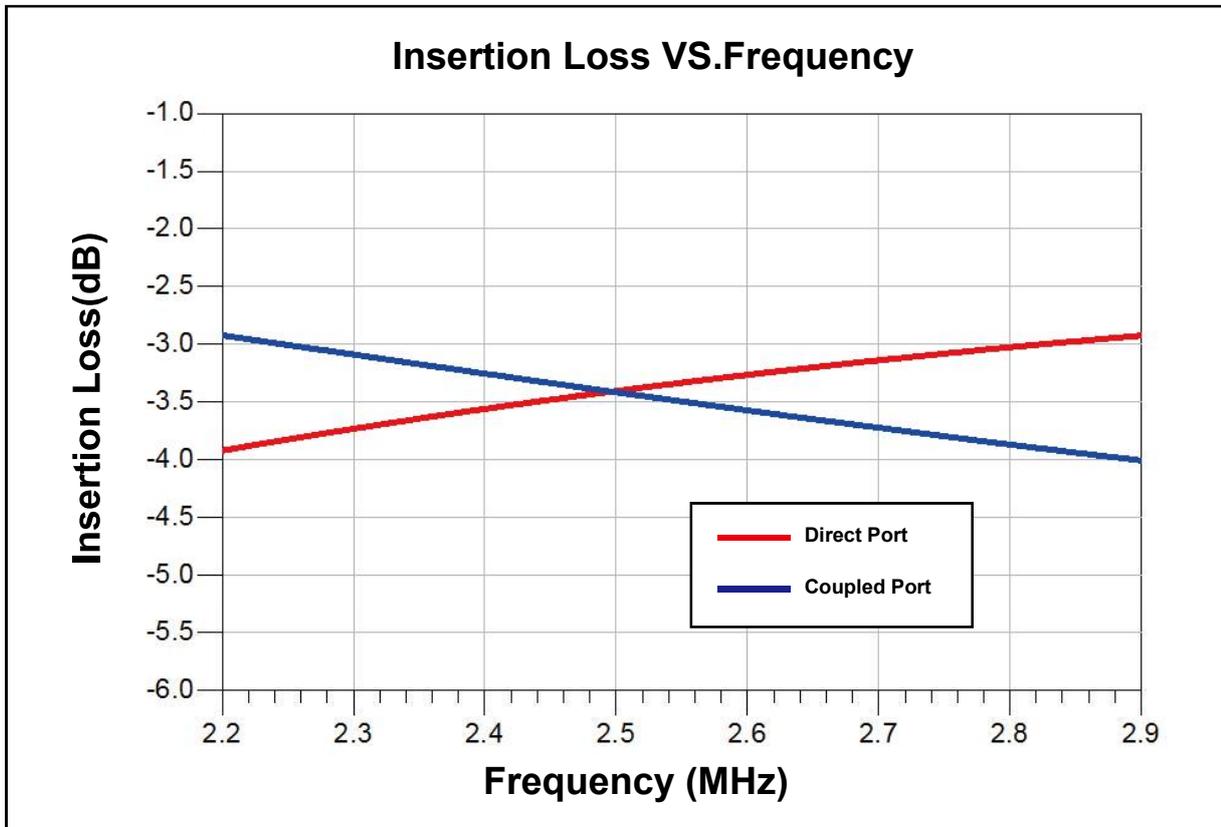
Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	F	2300		2650	MHz
Insertion Loss (Above 3dB)	I _L		0.35	0.4	dB
Isolation	Isol	25	30		dB
Phase balance	∅ _{bal}		±1.0	±2.0	deg
Amplitude balance	A _{bal}		±0.5	±0.75	dB
Return Loss	R _L	20	25		dB

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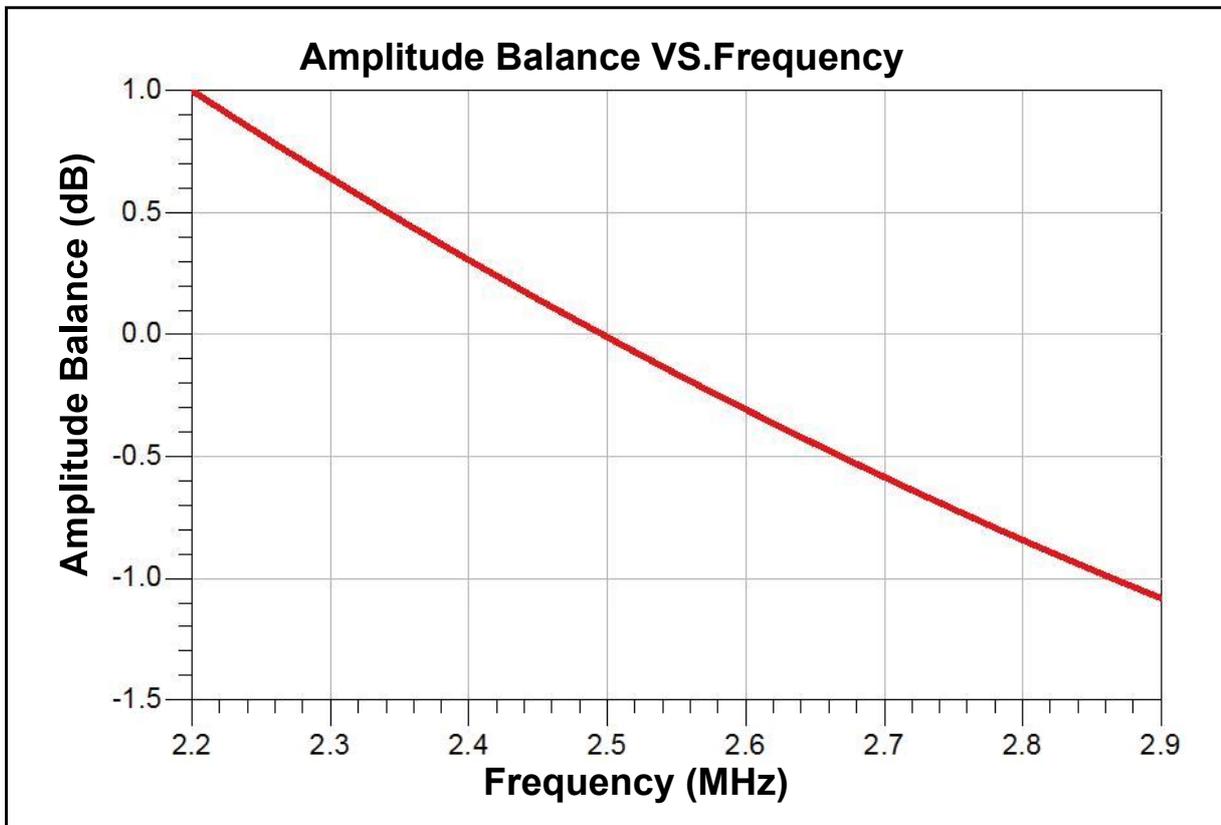
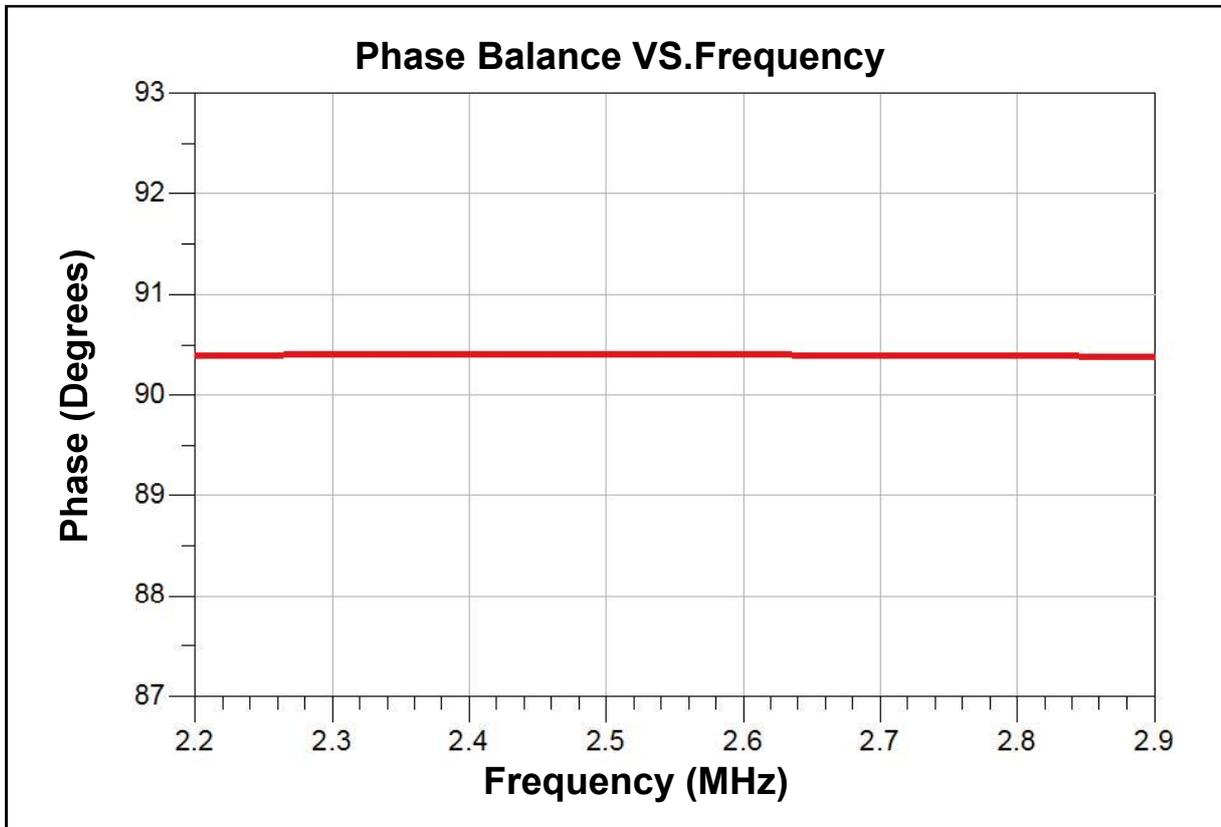


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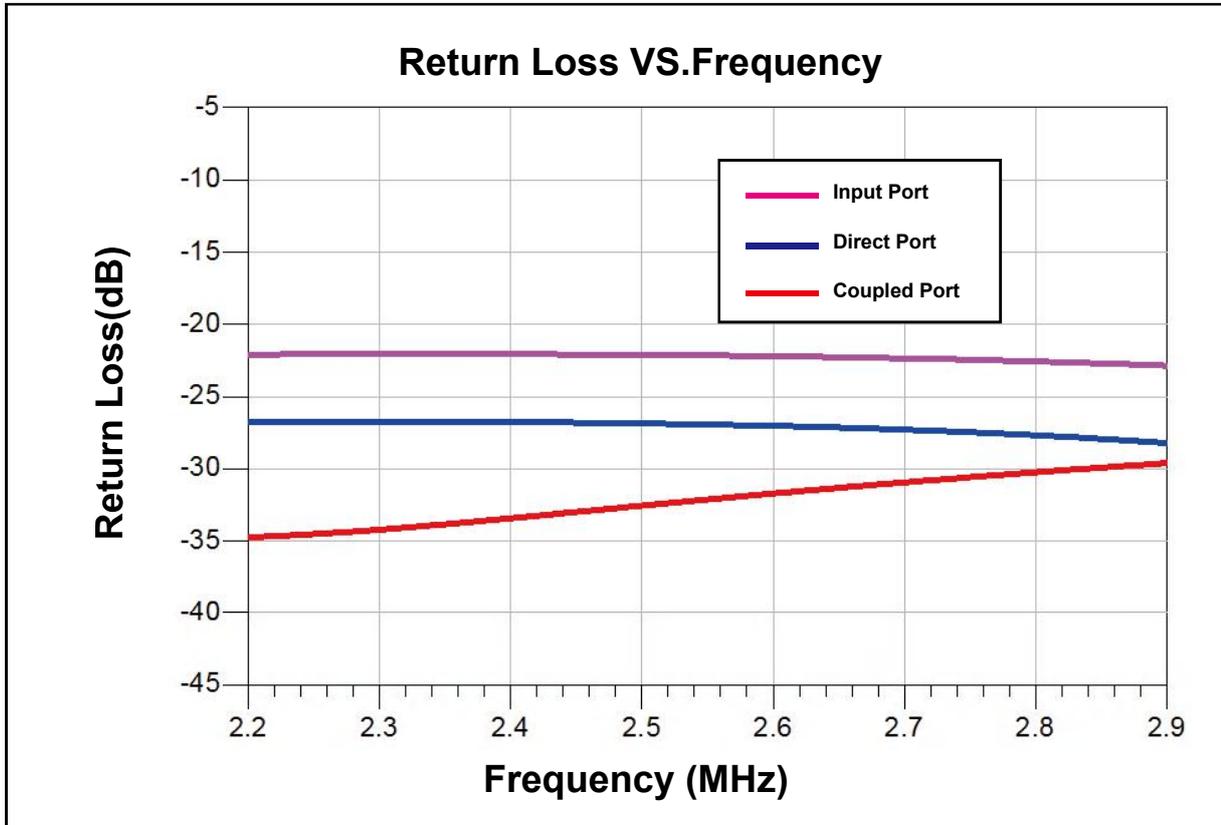


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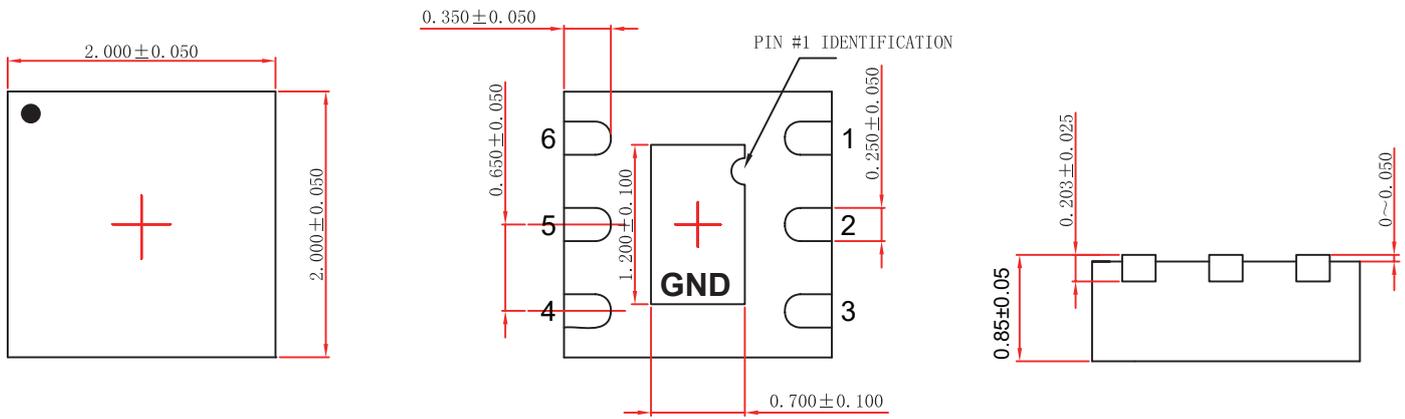
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Outline Drawing

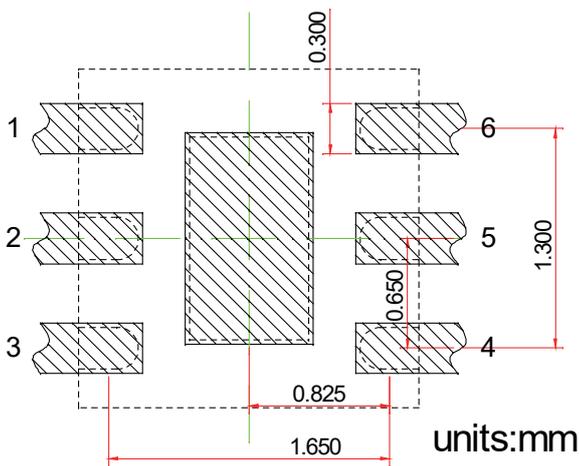


TOP VIEW

BOTTOM VIEW

SIDE VIEW

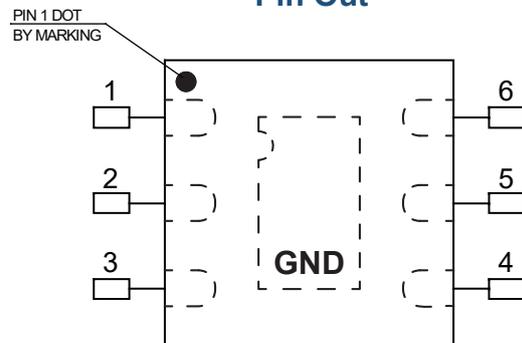
Land Pattern



Recommended Land Pattern Top View

Notes: All dimensions show in millimeters

Pin Out



TOP VIEW

Pin #	Connection
1	IN
2	GND
3	ISOL
4	DIRECT
5	GND
6	COUPLED
Center Pad	GND