

Data Sheet

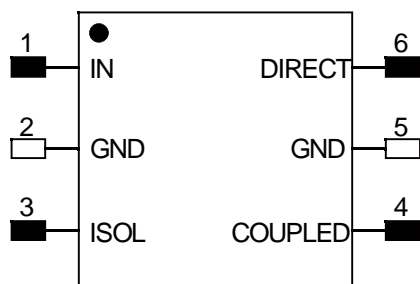
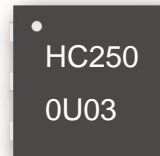
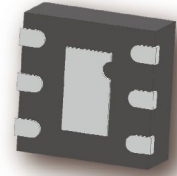
HC2500U03-055

90 Degree Hybrid
2.30 GHz-2.65 GHz



Features

- Small Size (2x2mm)
- 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



TOP VIEW

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

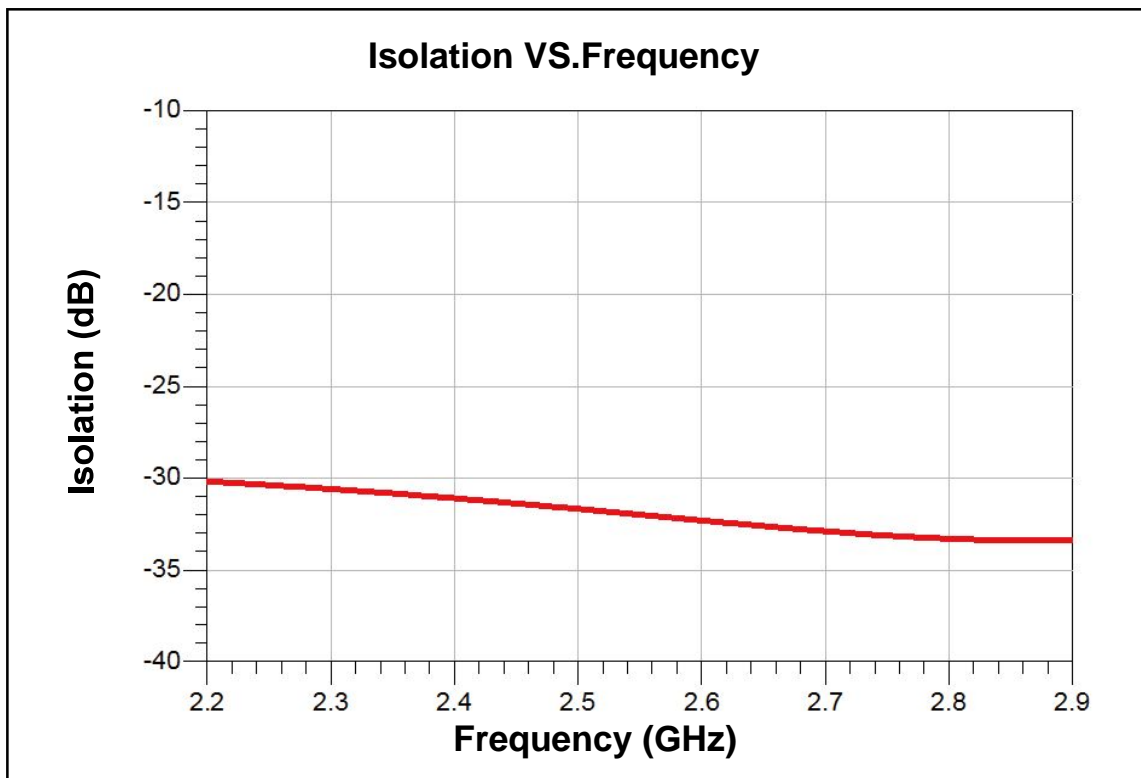
Yantel Corporation

Add: 3F, Building 3, Southern District 2 of Zhongguan Honghualing Industrial Park, Xili, Nanshan, Shenzhen, China
Tel: 86-755-8355-1886 Fax: 86-755-8355-2533

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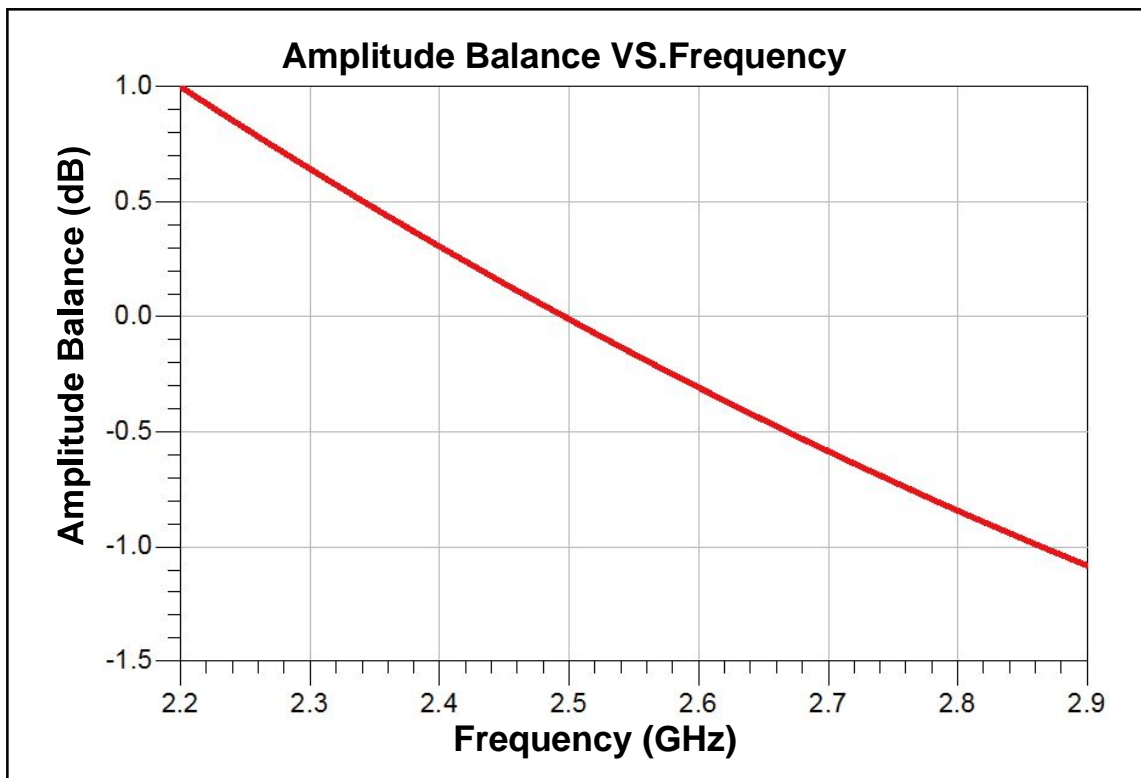
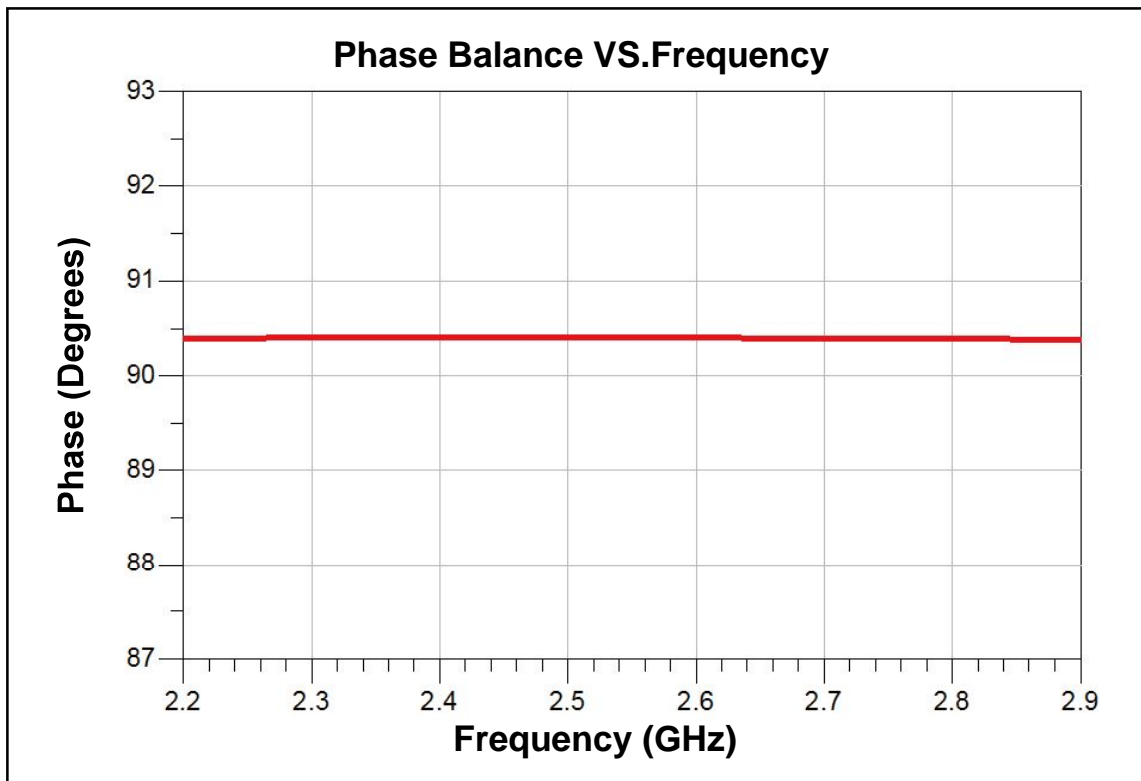
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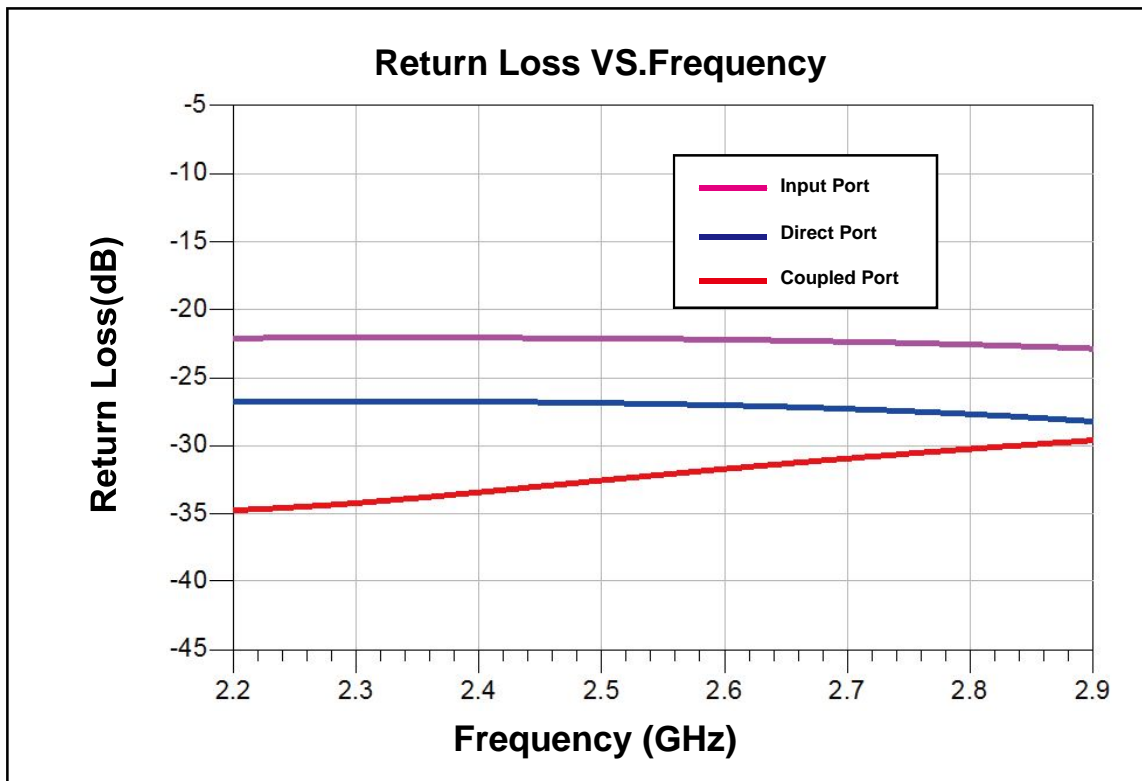
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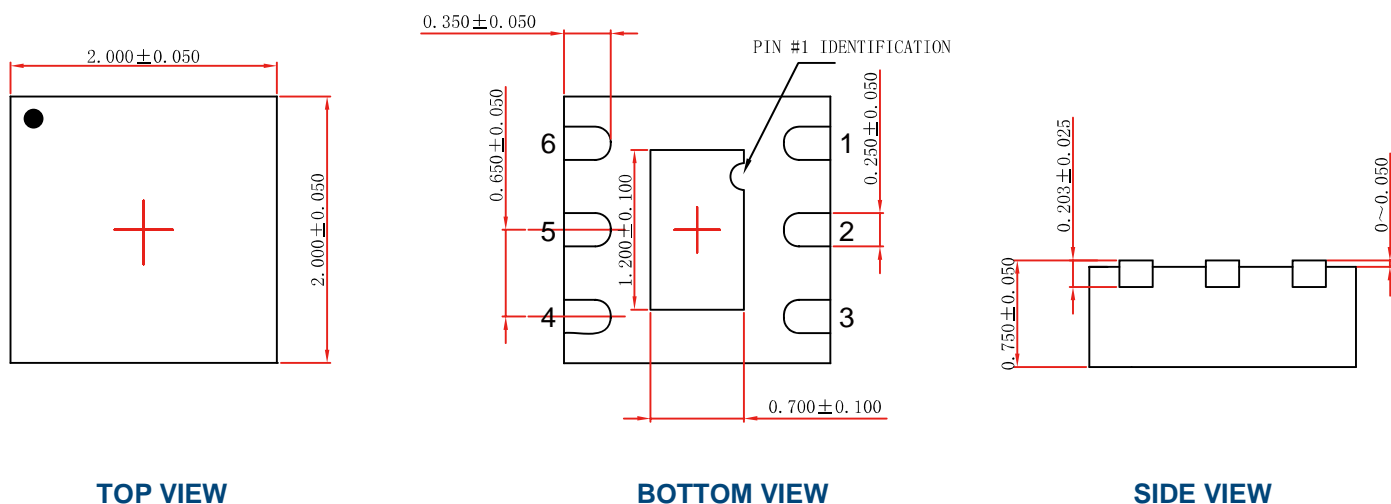
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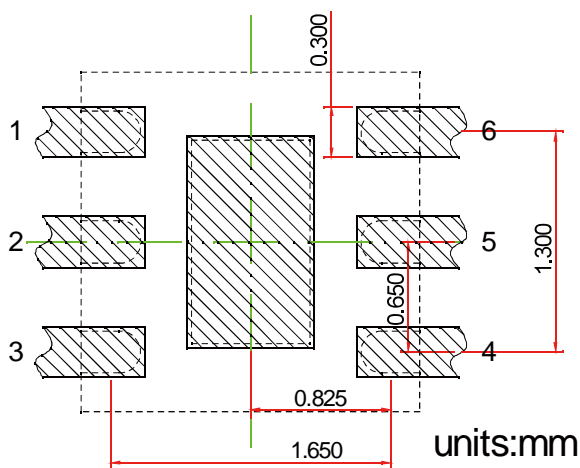
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Outline Drawing



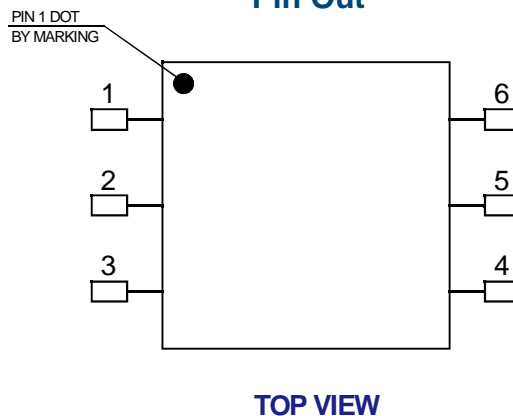
Land Pattern



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

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