

Data Sheet

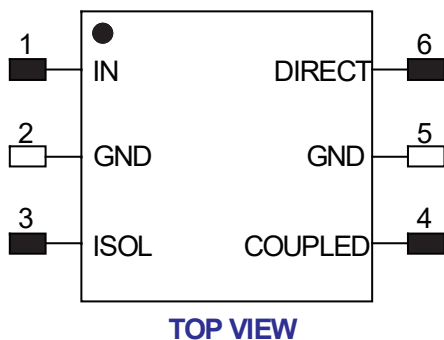
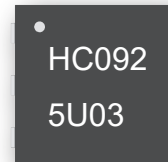
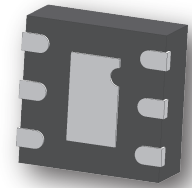
HC0925U03-020

3dB 90° Coupler IC
880 MHz-960 MHz



Features

- Small Size (2×2mm)
- Passive RF IC, no need external DC power supply
- Very Low Loss
- Tight Amplitude Balance
- High Isolation
- Low VSWR
- Good Repeatability
- Tape & Reel
- Operating Temperature: -40°C to +85°C
- 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	880		960	MHz
Insertion Loss (Above 3dB)	I_L		0.30	0.35	dB
Isolation	Isol	25	27		dB
Phase balance	θ_{bal}		1.5	2.0	deg
Amplitude balance	A_{bal}		0.3	0.50	dB
Return Loss	R_L	26	29		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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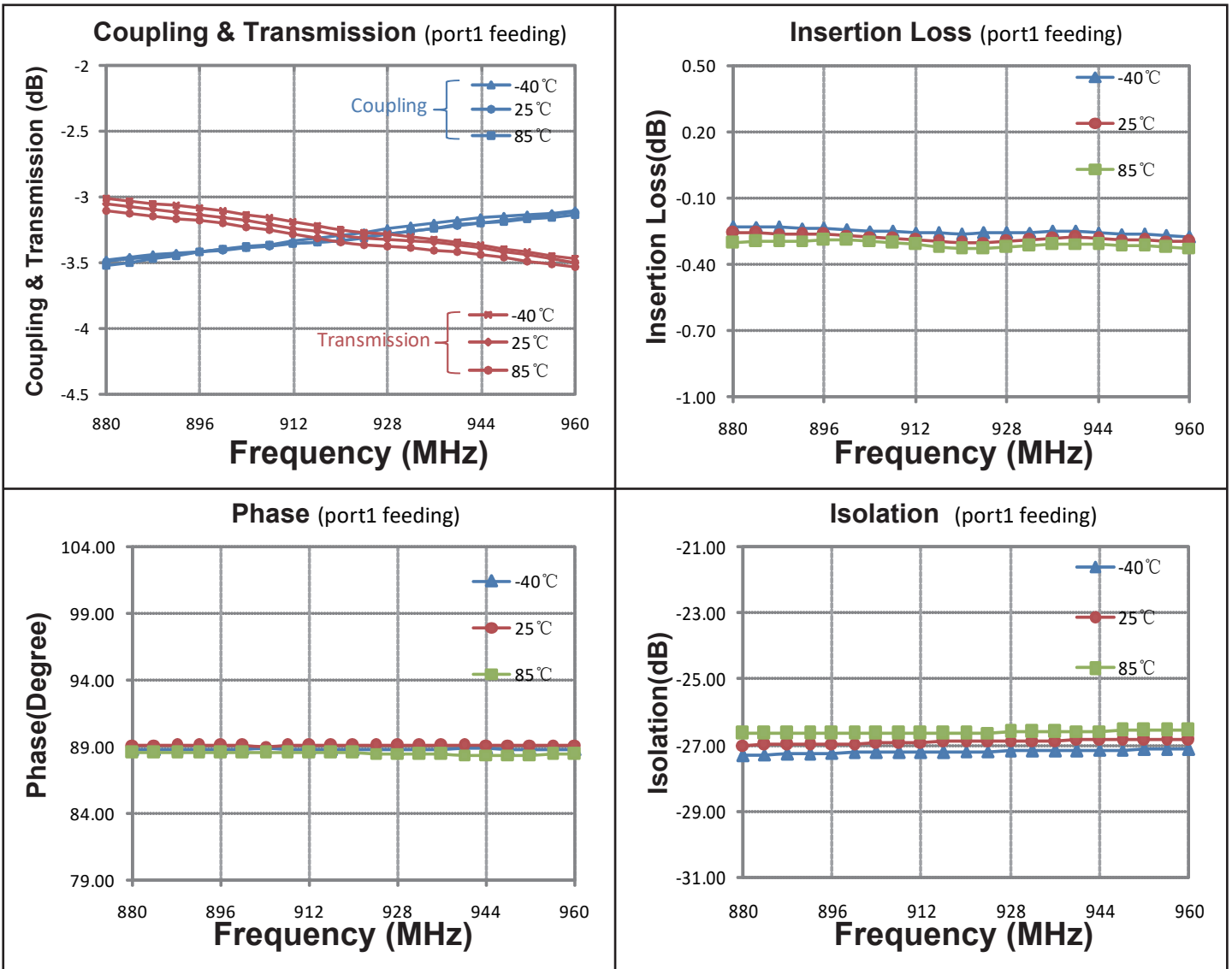
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Typical Performance (-40°C, 25°C, 85°C: 880-960 MHz)



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Rev A3

For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

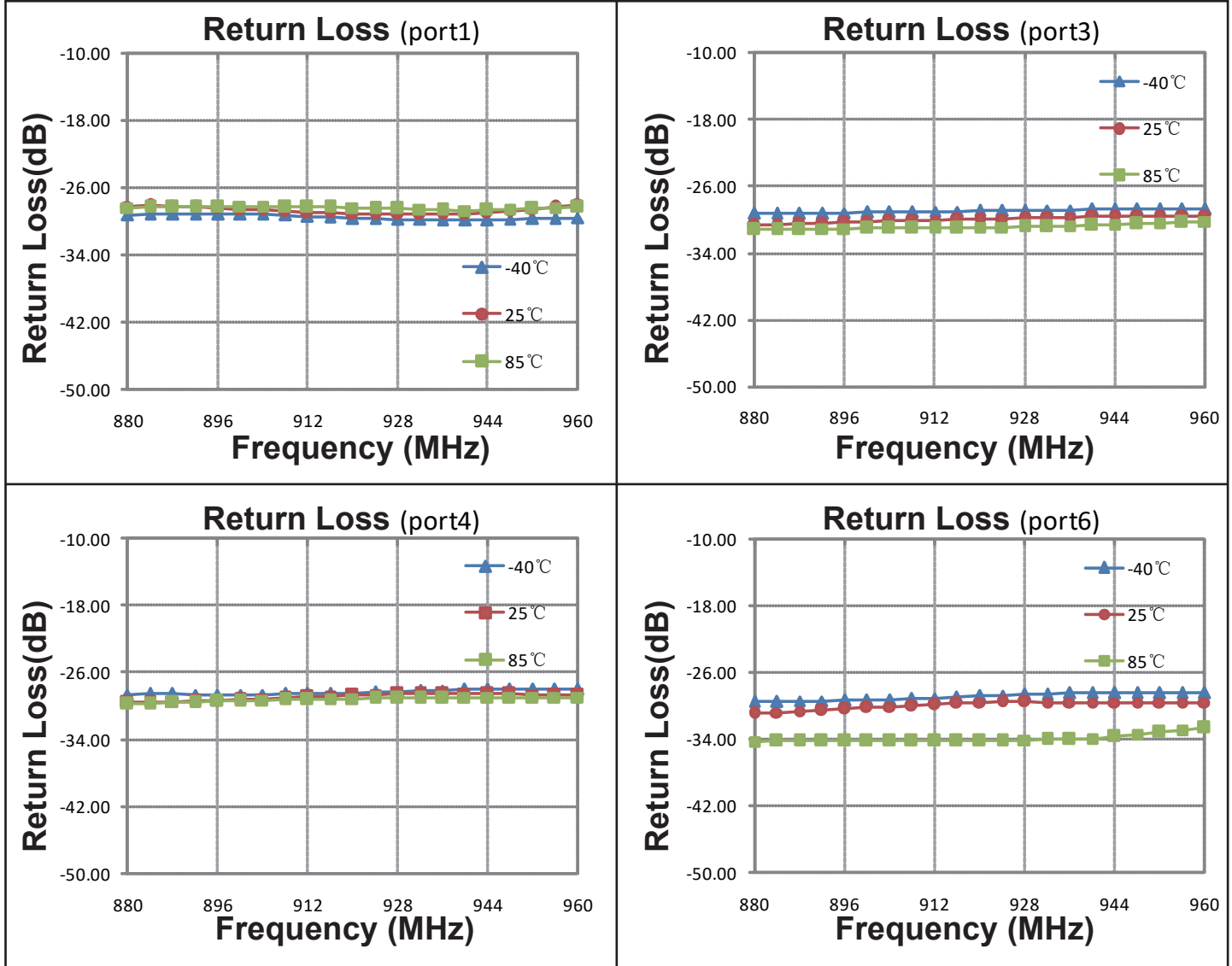
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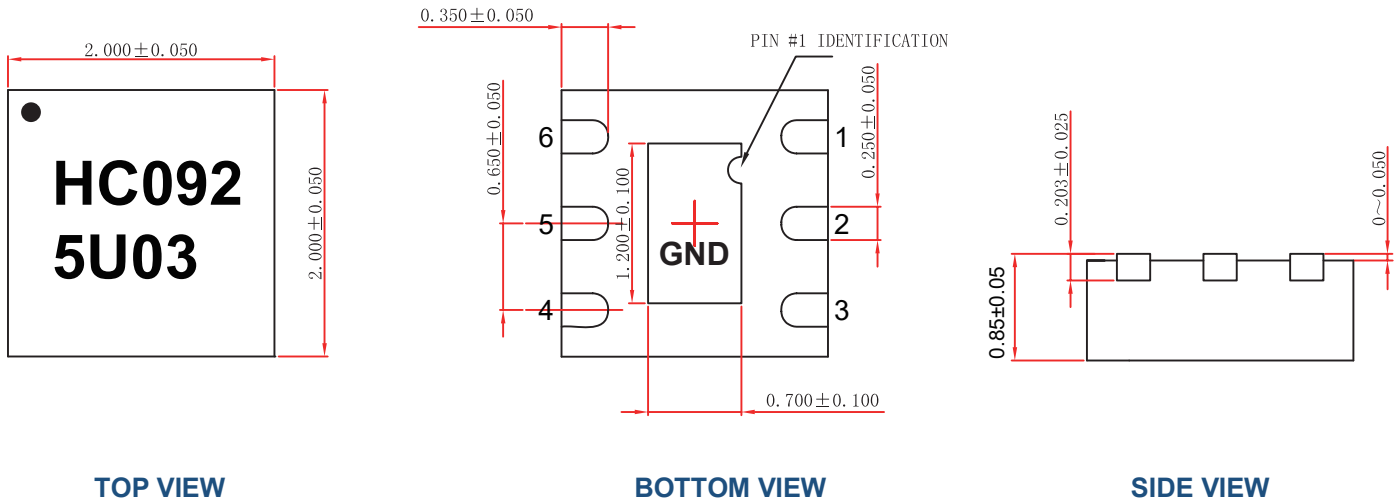
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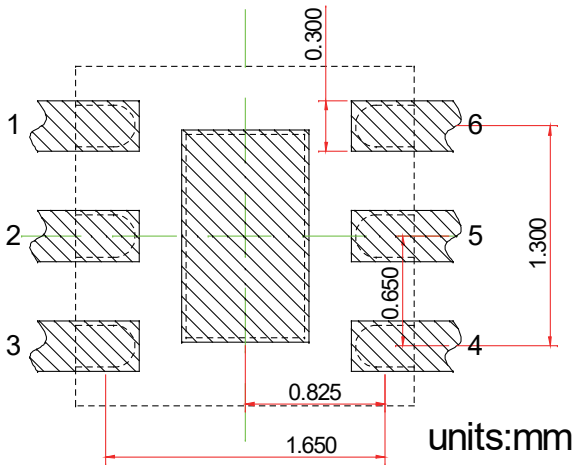
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Outline Drawing



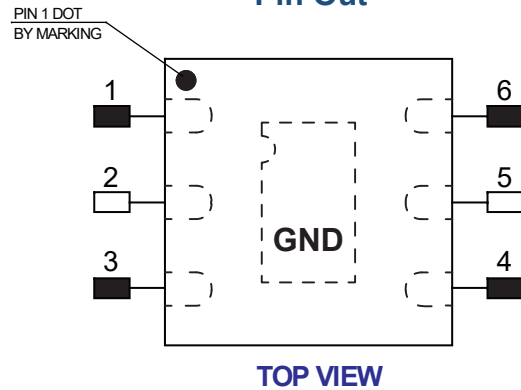
Land Pattern



Recommended Land Pattern Top View

Notes: All dimensions show in millimeters

Pin Out



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	IN
2	GND
3	ISOL
4	COUPLED
5	GND
6	DIRECT
Center Pad	GND

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