

Data Sheet

DC4000U10-120

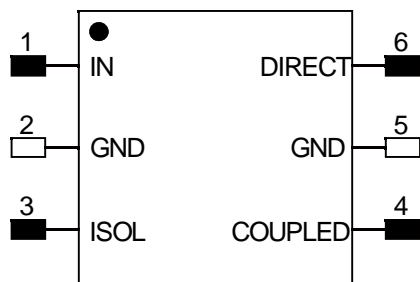
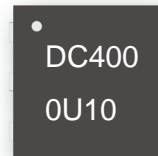
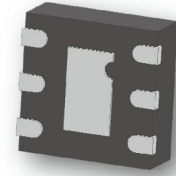
Directional Coupler

700 MHz-4.0 GHz



Features

- Small Size (2x2mm)
- Very Low Loss
- Excellent directivity
- Broad frequency coverage
- High Isolation
- Low VSWR
- Good Repeatability
- Tape & Reel
- Power handling:4 watts



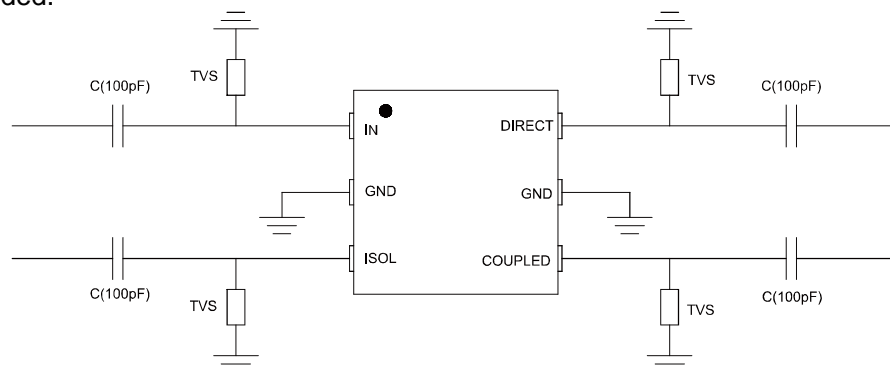
TOP VIEW

Applications

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

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): $\leq 650V$ in accordance with ANSI/ESD STM 5.1 - 2001
 Machine Model (MM): $\leq 50V$ in accordance with ANSI/ESD STM 5.2 - 1999

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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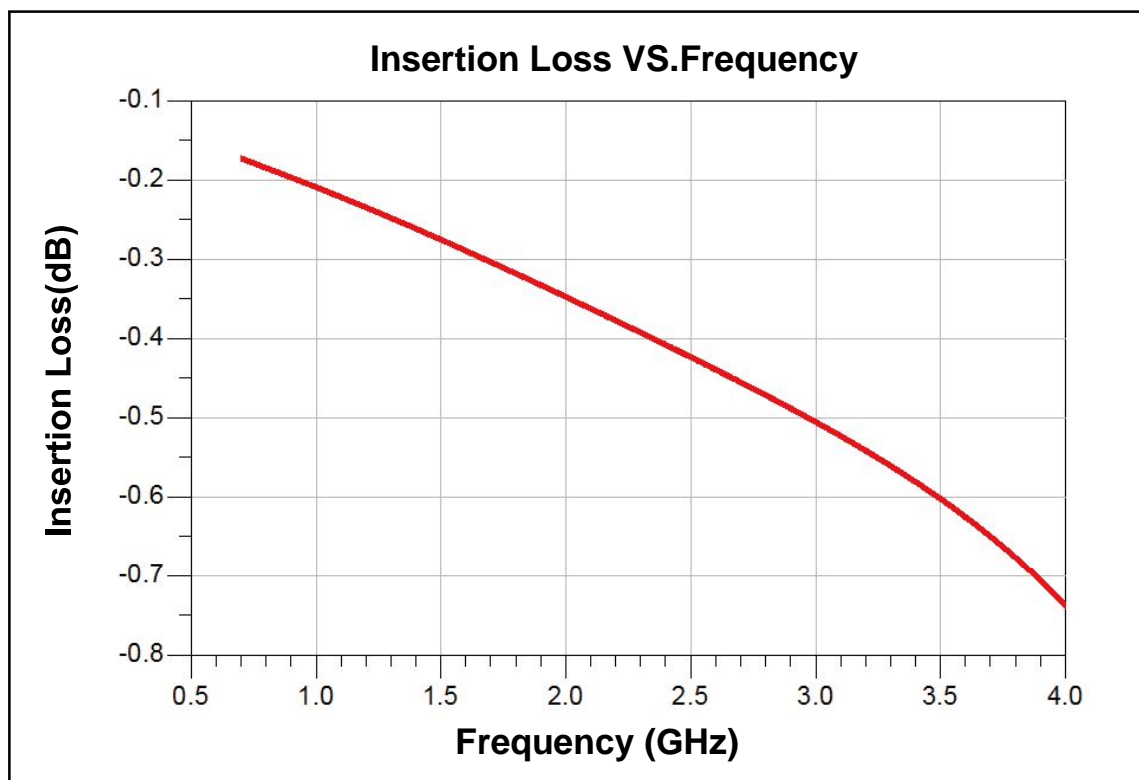
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Electrical Specifications at 25° C

Part No.	Freq. Range (MHz) FL~FU	Power (W)	Size LxW (mm)	Coupling (dB)	Insertion loss (dB)	VSWR(:1)	Directivity (dB)
DC4000U10-120	700~850	4	2X2	22.2	0.21	1.07	20.1
	850~960			21.3	0.21	1.07	19.9
	960~1400			18.1	0.27	1.09	19.1
	1400~1700			16.6	0.31	1.09	19
	1700~2000			15.4	0.35	1.09	19
	2000~2700			13.3	0.46	1.07	19
	2700~4000			11	0.85	1.43	13.8

Typical Performance (-40°C, 25°C, 85°C: 700-4000 MHz)



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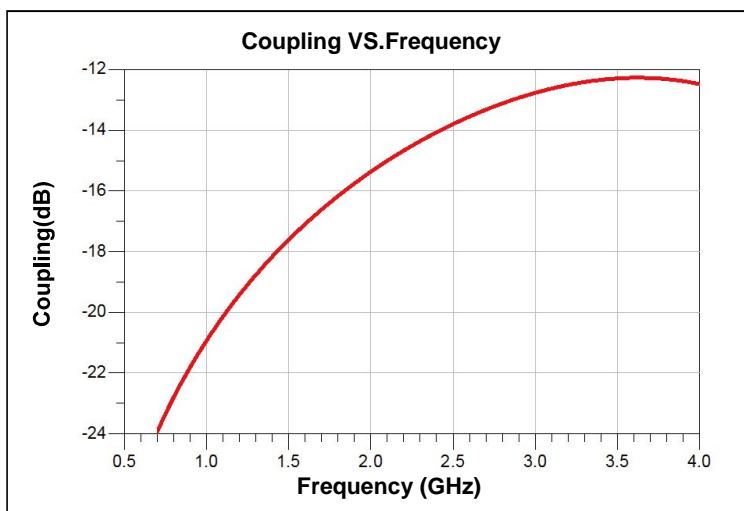
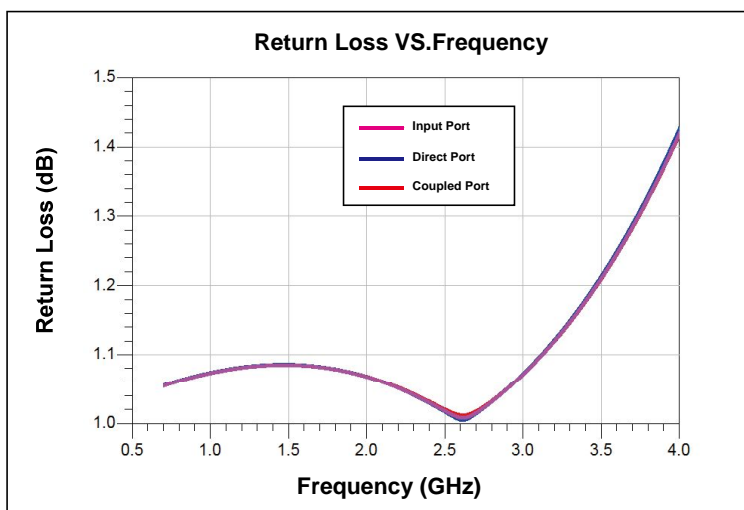
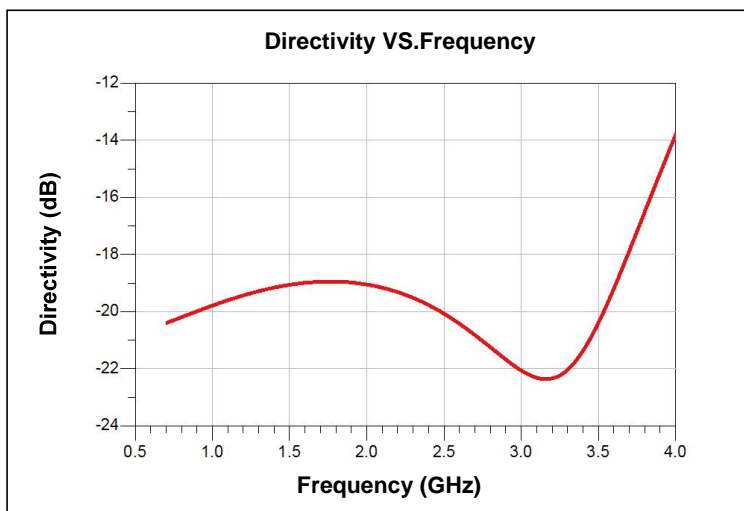
Rev A3

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

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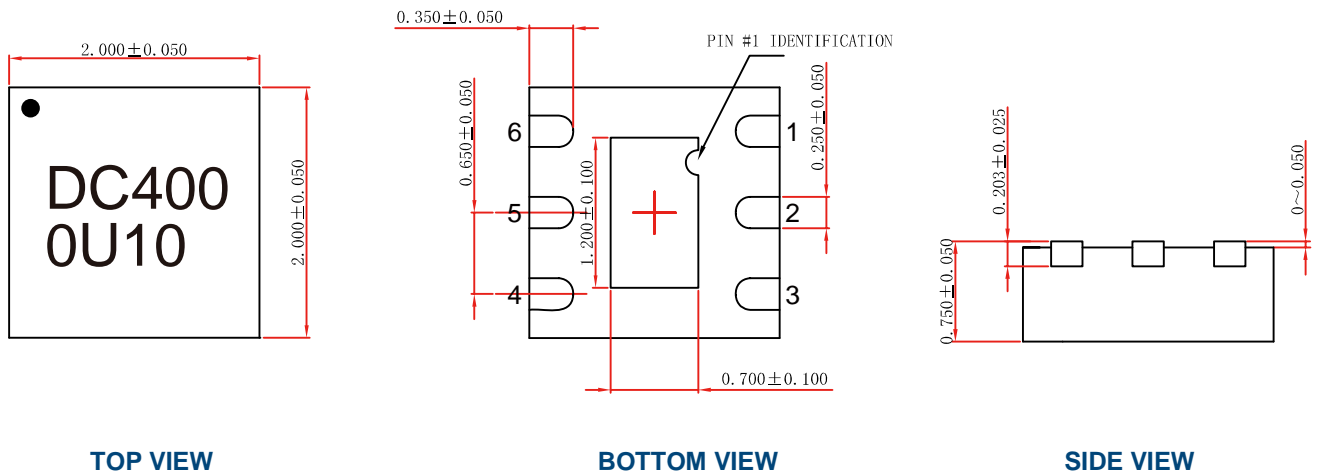
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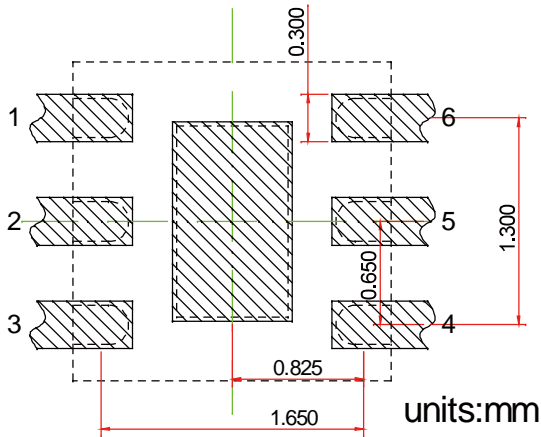
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Outline Drawing



Land Pattern

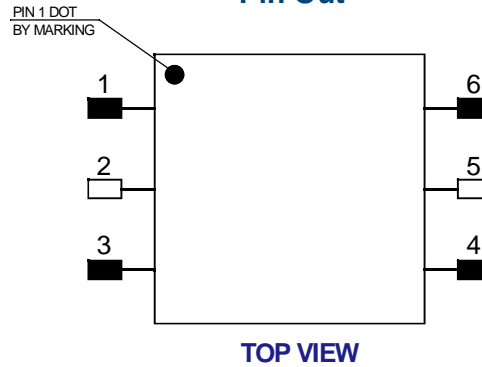


Recommended Land Pattern

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 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

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