

Data Sheet

DC1800U10-123

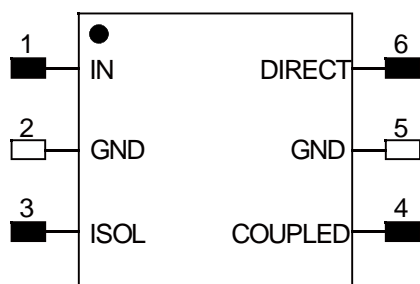
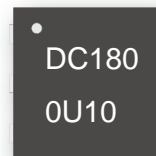
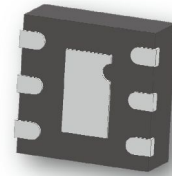
Directional Coupler

1700 MHz-2200 MHz



Features

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



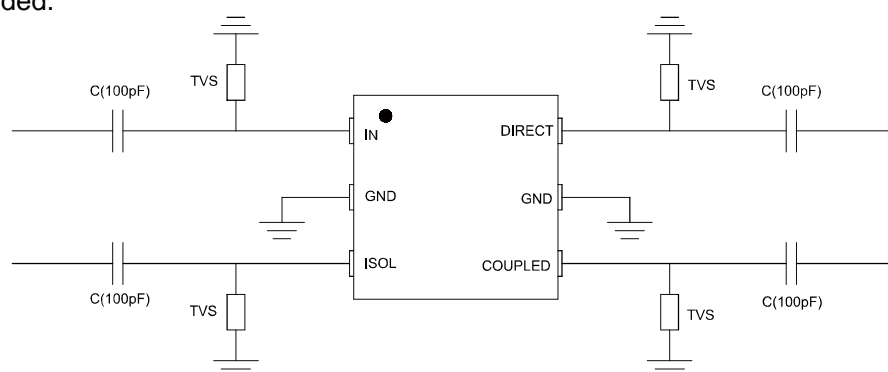
TOP VIEW

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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DC1800U10-123

Directional Coupler

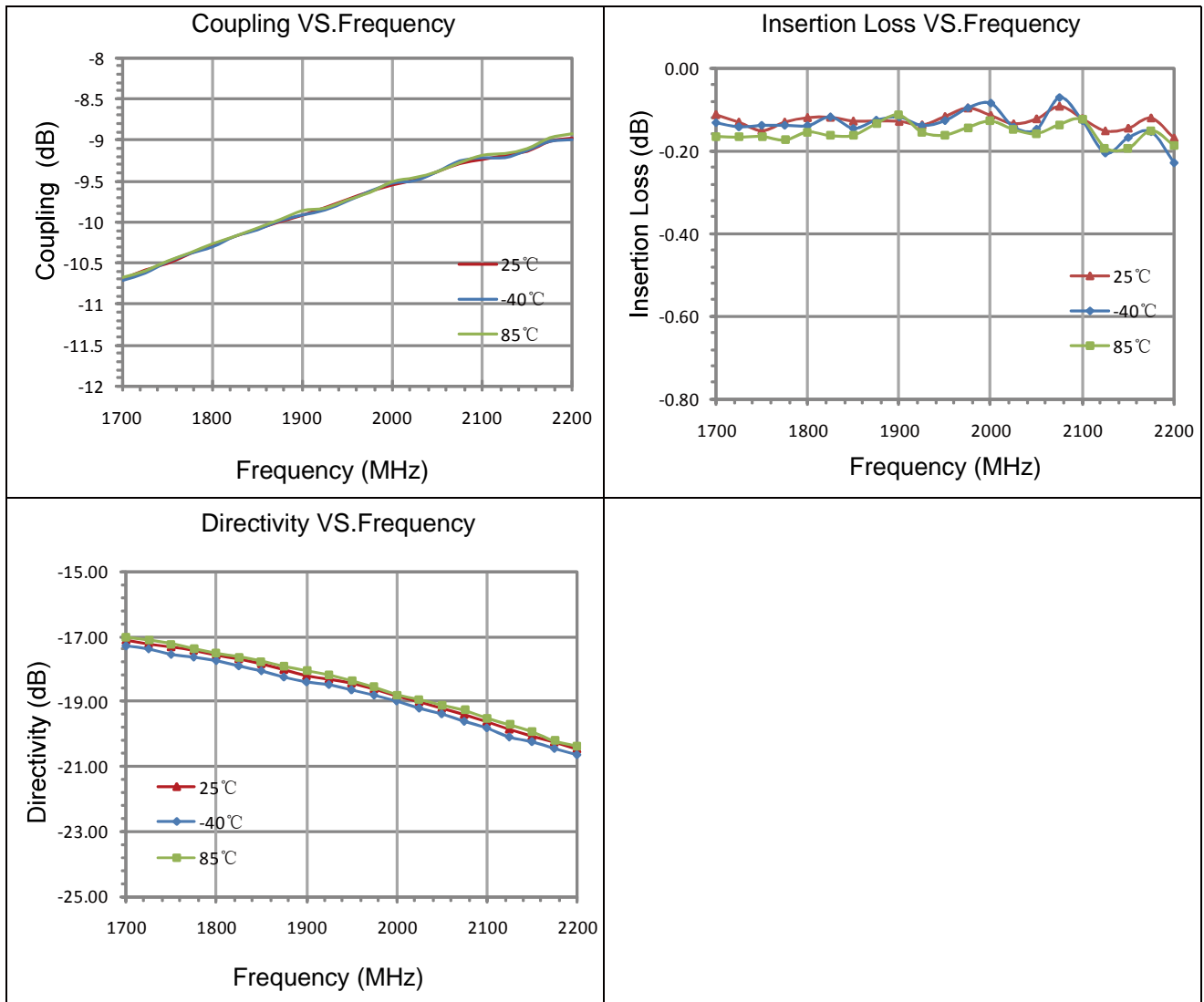
1700 MHz-2200 MHz



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)
				Min	Typ	Max		Min	Typ	Max	
DC1800U10-123	1700~2200	4	2X2		10.2		0.18		1.10		18
	1805~1880				10.2		0.18		1.10		19
	1930~1990				9.5		0.18		1.10		20
	2110~2170				9.1		0.18		1.10		22

Typical Performance (-40°C, 25°C, 85°C: 1700-2200 MHz)



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Rev A4

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

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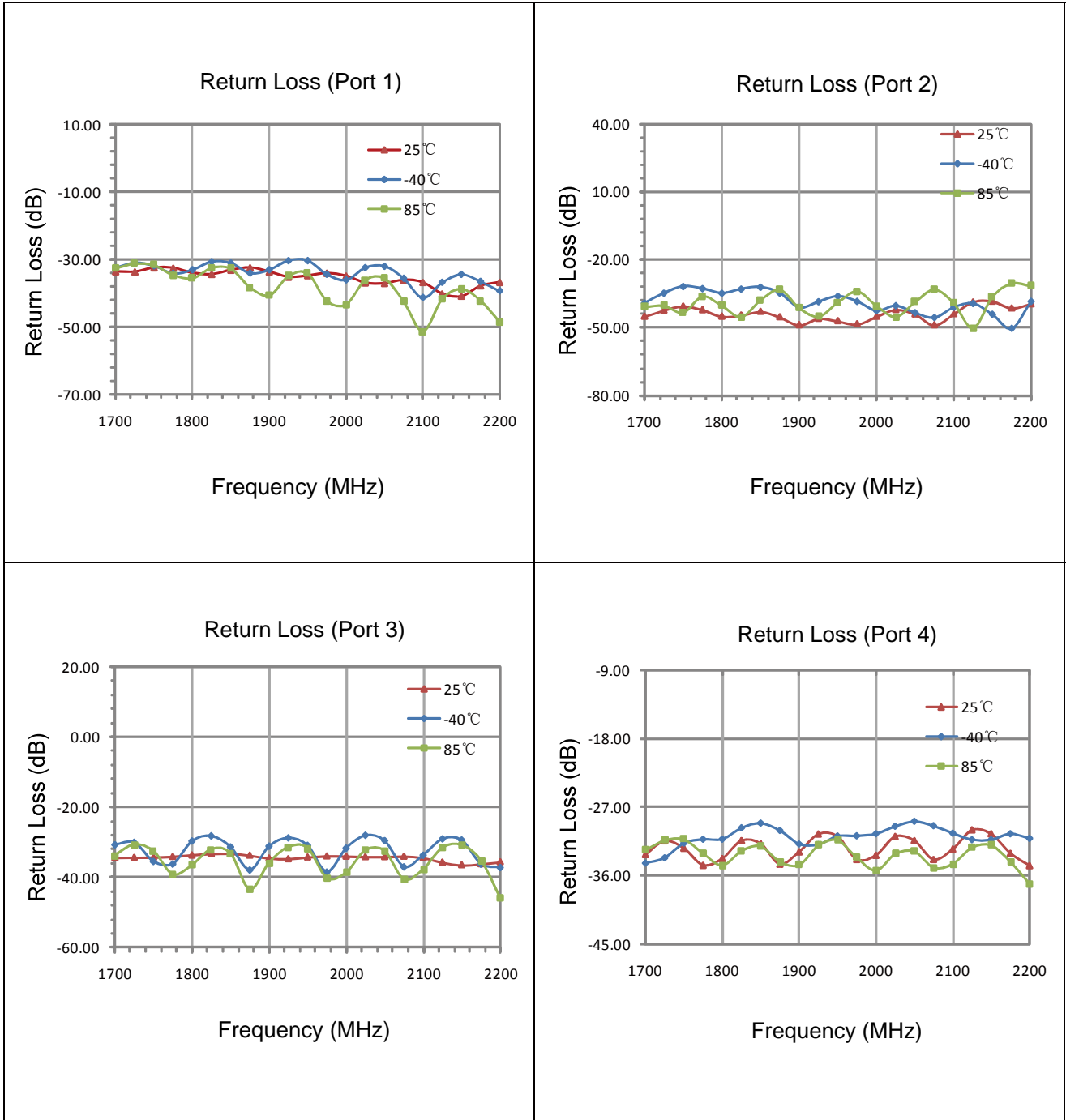
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Directional Coupler

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Frequency (GHz)

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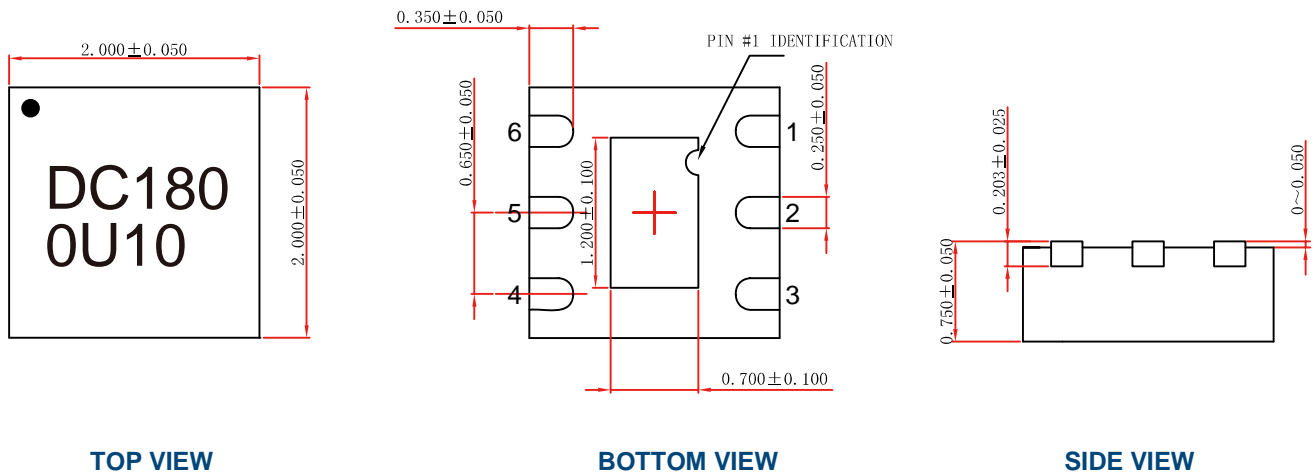
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Directional Coupler

1700 MHz-2200 MHz



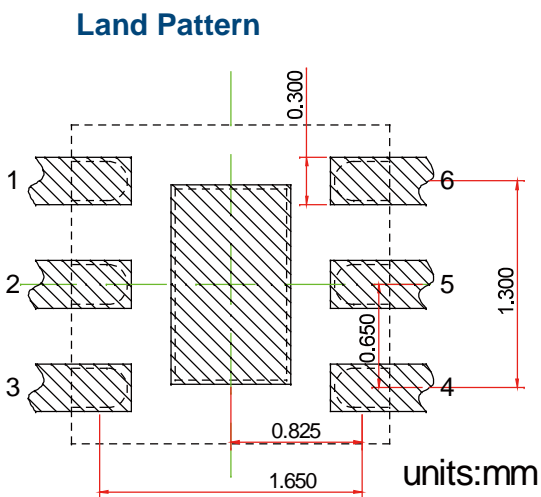
Outline Drawing



TOP VIEW

BOTTOM VIEW

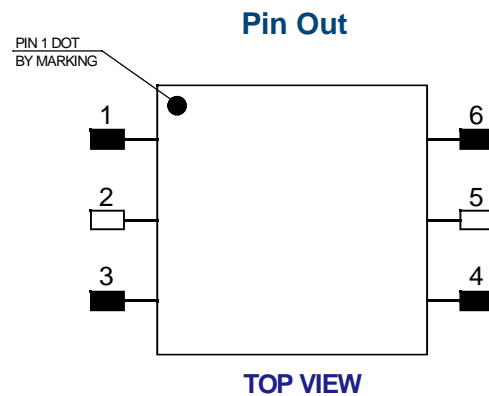
SIDE VIEW



Recommended Land Pattern

Top View

Notes: All dimensions show in millimeters



- 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

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