

Data Sheet

PD0900U06-150

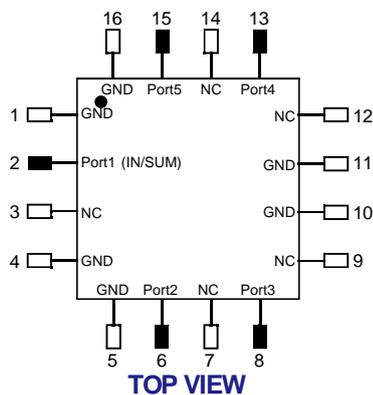
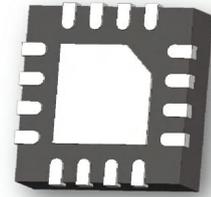
Power Divider/Combiner

4-Way 0° 50Ω 820-960 MHz



Features

- Small Size (3x3mm QFN package)
- Passive RF IC, no need external DC power supply
- No need external 100 Ω resistor
- Very Low Loss
- Tight Amplitude Balance
- High Isolation
- Low VSWR
- Good Repeatability
- Tape & Reel
- Operating Temperature -40°C~85°C
- Power handling
 - 2 Watts as a divider
 - 0.5 Watts as a combiner

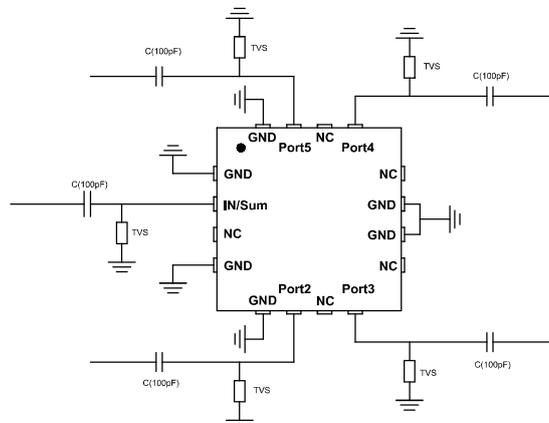


Applications

- Wireless communications
- WLAN / WiMax
- SAT Radio
- ISM band instrument
- Information System for Automotive Safety

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): $\leq 450V$ in accordance with ANSI/ESD STM 5.1 - 2001

Machine Model (MM): $\leq 100V$ in accordance with ANSI/ESD STM 5.2 - 1999

Yantel Corporation

A4.0

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

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

Data Sheet

PD0900U06-150

Power Divider/Combiner

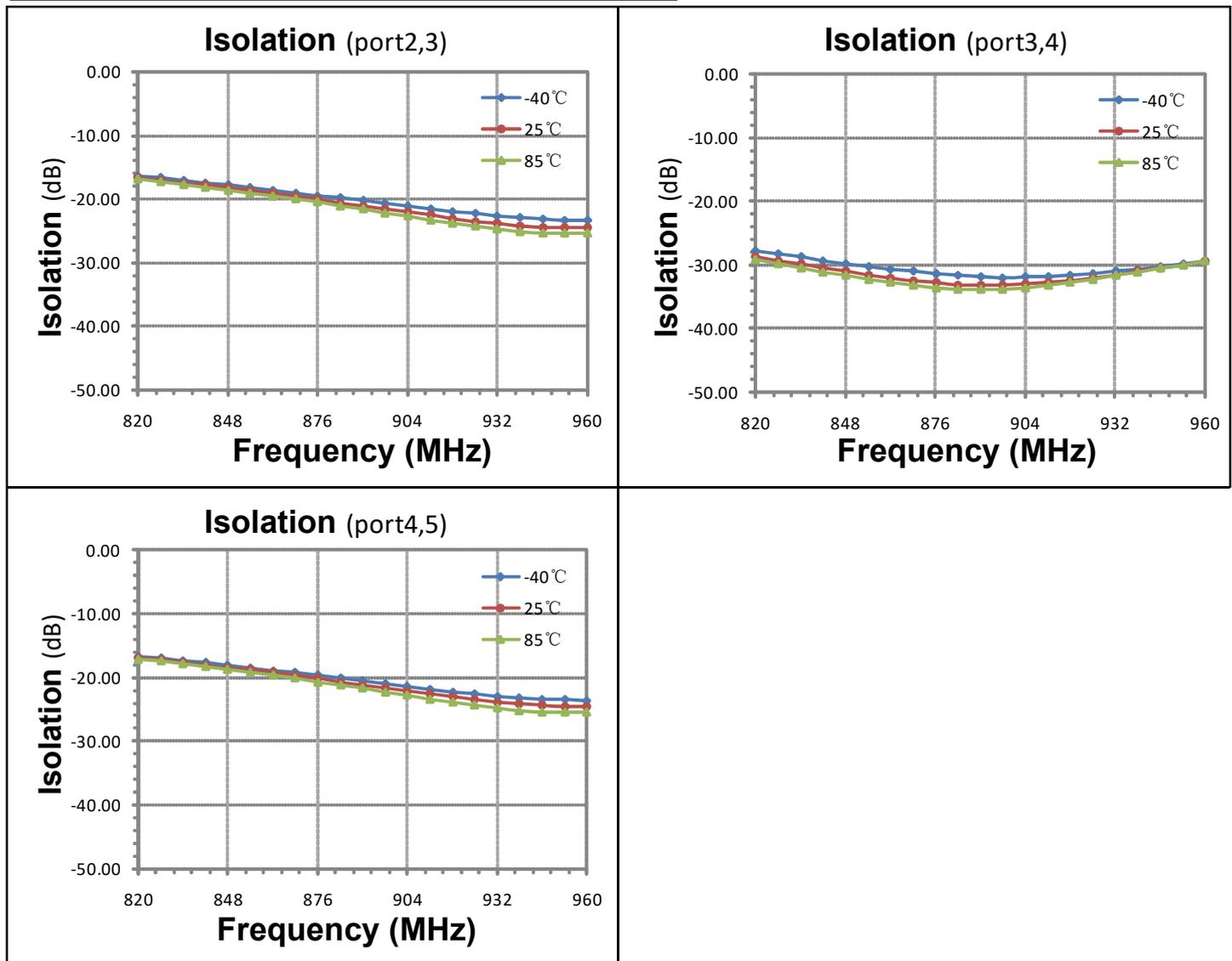
4-Way 0° 50Ω 820-960 MHz



Electrical Specifications at 25° C

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	F	820		960	MHz
Insertion Loss (Above 6dB)	I_L	0.6	0.65	0.75	dB
Isolation	Isol	15		33	dB
Phase balance	θ_{bal}		1		deg
Amplitude balance	A_{bal}		0.05~0.12		dB
Input VSWR			1.1~1.25		:1
Output VSWR			1.1~1.20		:1

Typical Performance (-40°C, 25°C, 85°C, 125°C: 820-960 MHz)



Yantel Corporation

A4.0

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

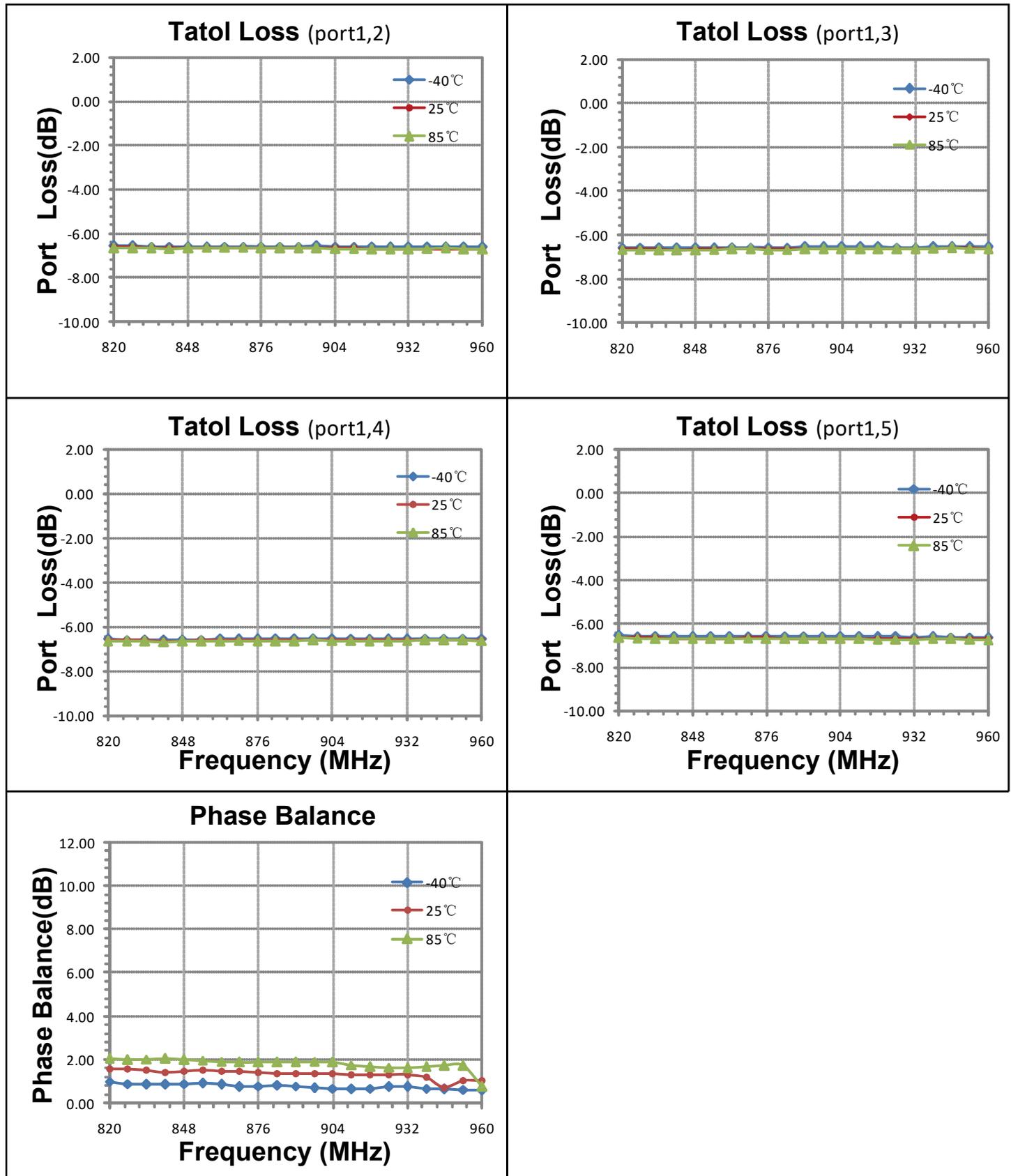
For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

Data Sheet

PD0900U06-150

Power Divider/Combiner

4-Way 0° 50Ω 820-960 MHz



Yantel Corporation

A4.0

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

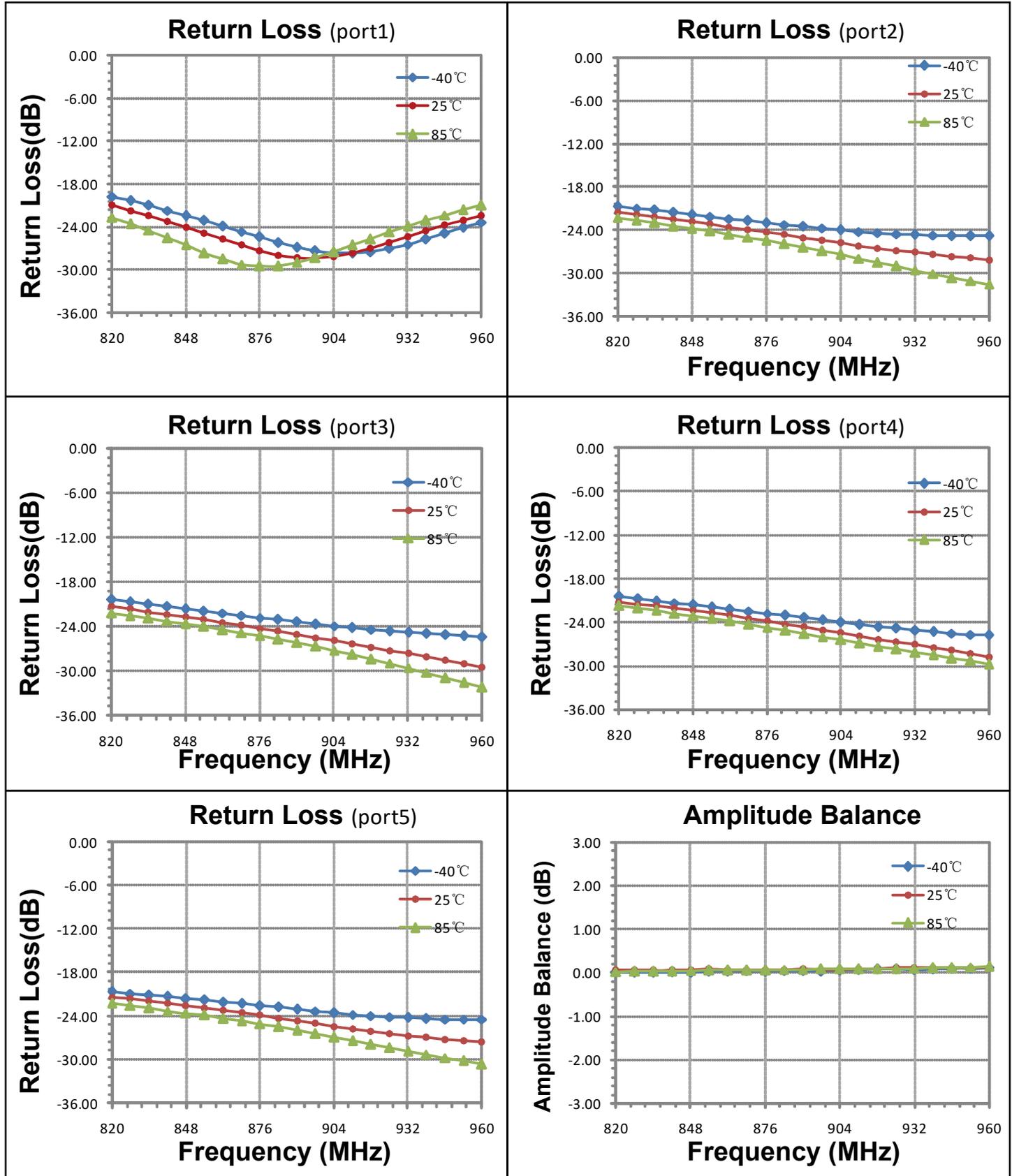
For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

Data Sheet

PD0900U06-150

Power Divider/Combiner

4-Way 0° 50Ω 820-960 MHz



Yantel Corporation

A4.0

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

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

Data Sheet

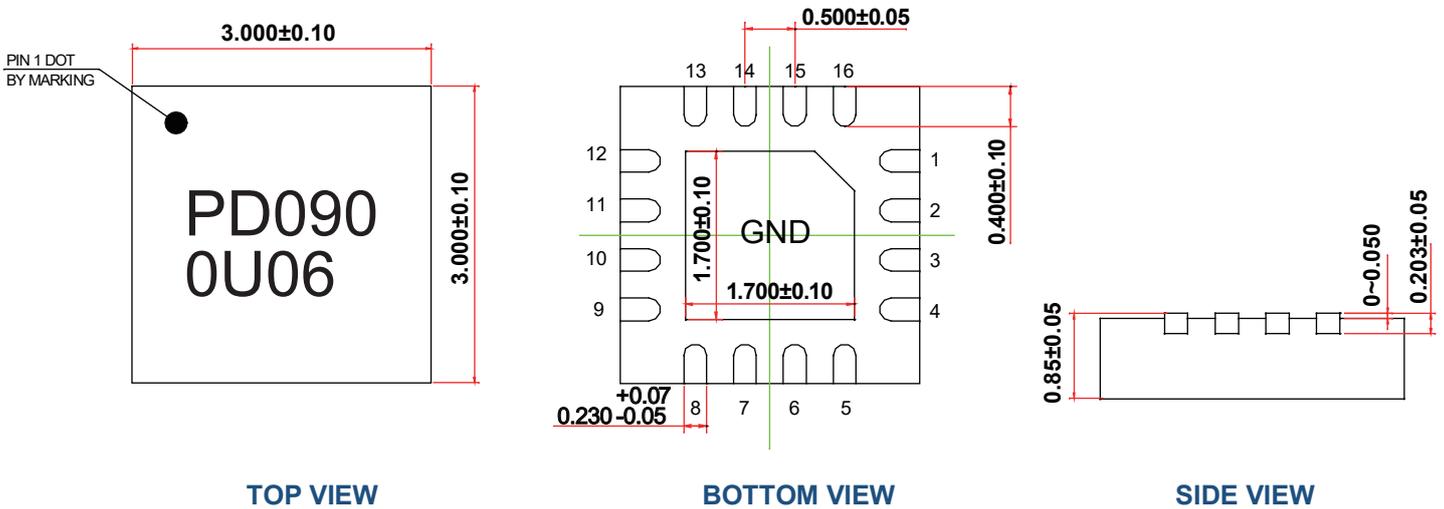
PD0900U06-150

Power Divider/Combiner

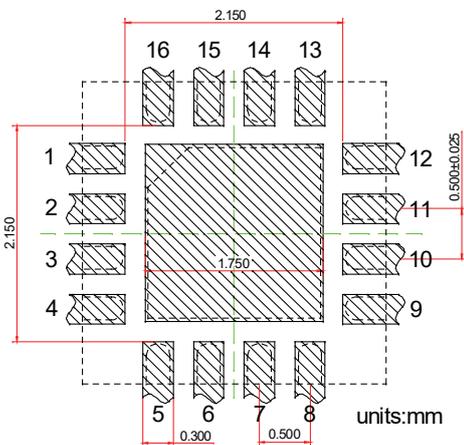
4-Way 0° 50Ω 820-960 MHz



Outline Drawing



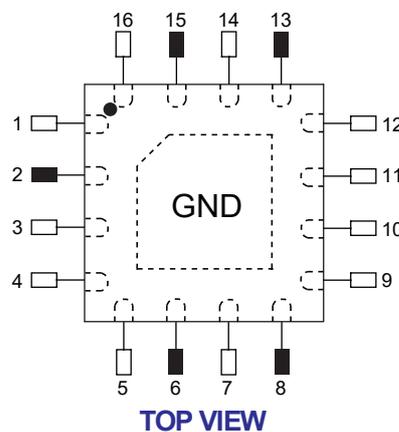
Land Pattern



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	GND
2	PORT 1 (IN/SUM)
3	NC
4	GND
5	GND
6	PORT 2
7	NC
8	PORT 3
9	NC
10	GND
11	GND
12	NC
13	PORT 4
14	NC
15	PORT 5
16	GND
Center Pad	GND

Yantel Corporation

A4.0

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

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