Data Sheet
PD1850U06-160
Power Divider/Combiner
4-Way 0° 50Ω 1.70-2.00 GHz

Features

- Small Size (3×3mm 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℃~85℃
- 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 Eletrode (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): ⩽ 450V in accordance with ANSI/ESD STM 5.1 - 2001

Machine Model (MM): ⩽ 100V 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

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

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Electrical Specifications at 25º C

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	F	1700		2000	MHz
Insertion Loss (Above 6dB)	I_L		0.45	0.60	dB
Isolation	Isol	16	22		dB
Phase balance	$Ø_{bal}$		2		deg
Amplitude balance	A_{bal}		0.30	0.35	dB
Input VSWR			1.20~1.4		:1
Output VSWR			1.20~1.5		:1

Typical Performance (-40°C, 25°C, 85°C: 1.7-2.0 GHz)

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Outline Drawing

TOP VIEW

BOTTOM VIEW

SIDE VIEW

Land Pattern

Recommended Land Pattern
Top View

Notes: All dimensions show in millimeters

Pin Out

TOP VIEW

Notes:
1.Require to add Capacitors of DC Blocker between Pins(with black color) and external circuit to prevent DC signal entry to gurante -eparts 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

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