Power Divider/Combiner

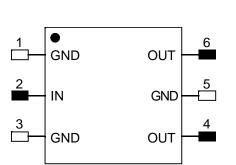
2-Way 0° 50Ω 280-610 MHz



Features

- Small Size (2x2mm DFN 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
 - 1 Watts as a combiner



TOP VIEW







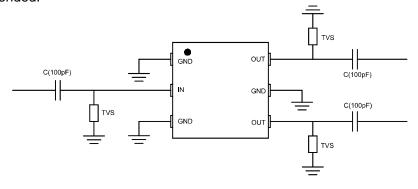


Applications

- 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): \le 800V in accordance with ANSI/ESD STM 5.1 - 2001 Machine Model (MM): \le 100V in accordance with ANSI/ESD STM 5.2 - 1999

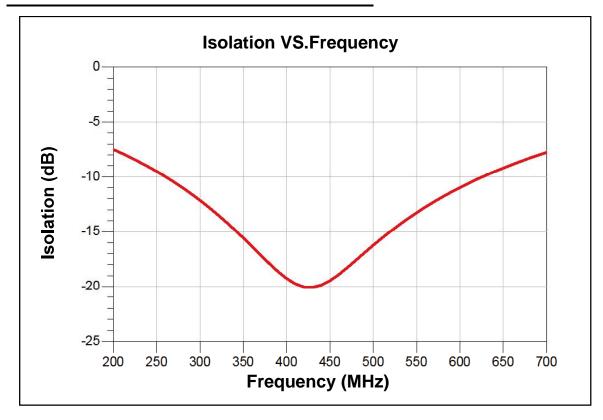
Power Divider/Combiner 2-Way 0° 50Ω 280-610 MHz



Electrical Specifications at 25° C

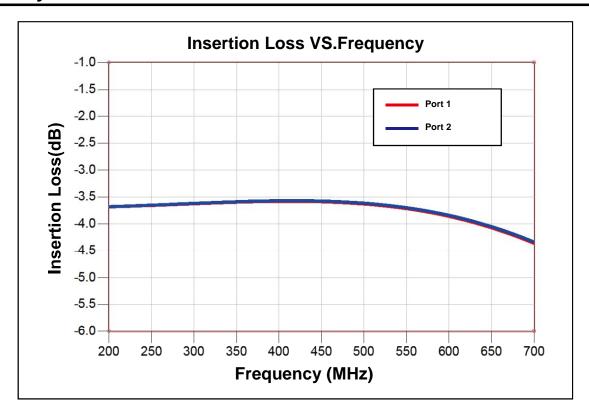
Parameter	Symbol	Min	Тур	Max	Unit
Frequency Range	F	280		610	MHz
Insertion Loss (Above 3dB)	Ι _L		0.6		dB
Isolation	Isol		10		dB
Phase balance	Ø _{bal}		±0.5		deg
Amplitude balance	A _{bal}		±0.1		dB
Input VSWR			1.4	1.6	
Output VSWR			1.2	1.3	

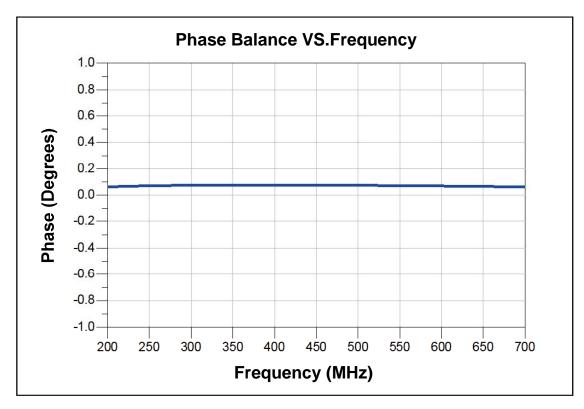
Typical Performance (-40°C, 25°C, 85°C, 125°C: 280-610 MHz)



Power Divider/Combiner 2-Way 0° 50Ω 280-610 MHz

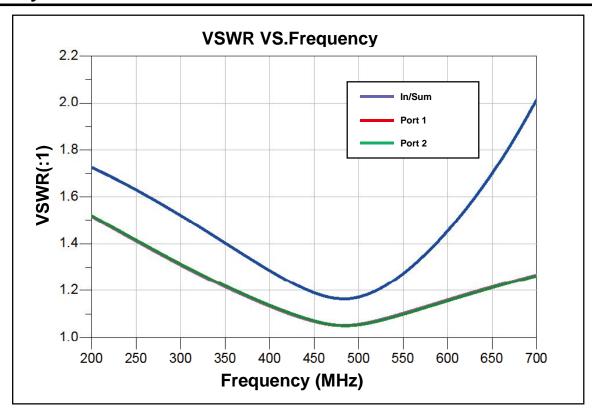


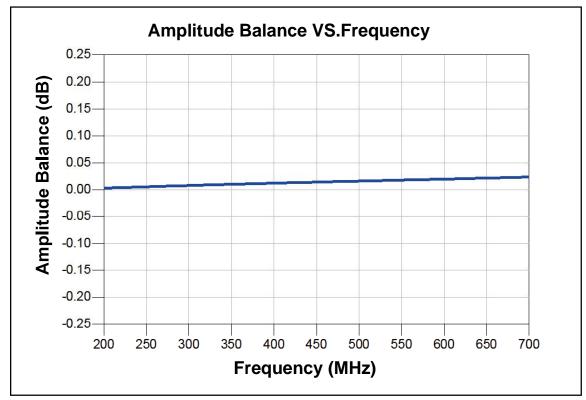




Power Divider/Combiner 2-Way 0° 50Ω 280-610 MHz





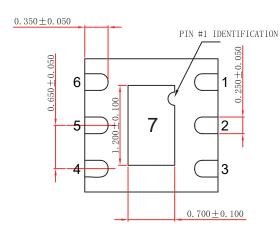


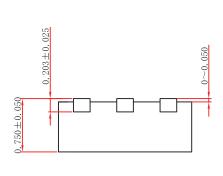
Power Divider/Combiner 2-Way 0° 50Ω 280-610 MHz



Outline Drawing



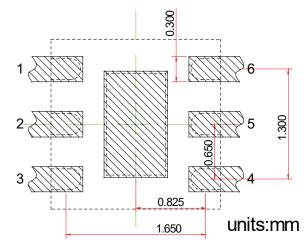




SIDE VIEW

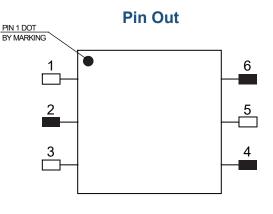
TOP VIEW BOTTOM VIEW

Land Pattern



Recommended Land Pattern Top View

Notes: All dimensions show in millimeters



Notes:

 Require to add Capacitors of DC Blocker between Pins(with black color) and external circuit to prevent DC signal entry to guranteeparts normal work.

TOP VIEW

2. This part has passed through 100% RF test.

Pin#	Connection		
1	GND		
2	IN		
3	GND		
4	OUT		
5	GND		
6	OUT		
7	GND		