

# Advanced Data Sheet

## VFPD205-010

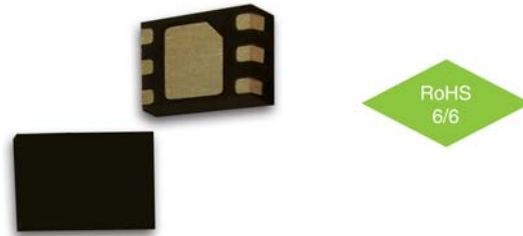
### 2-Way Power Divider

#### 2.4 – 2.7 GHz



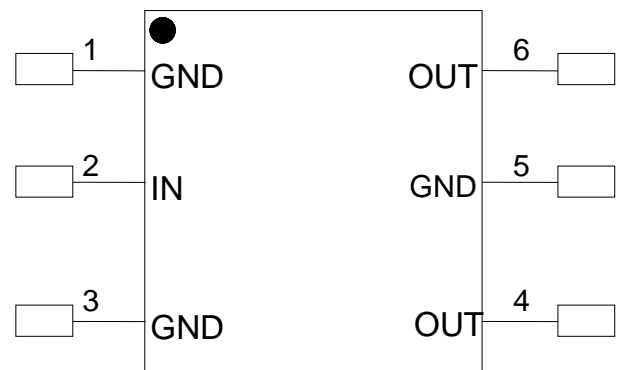
### Features

- Highly repeatable monolithic design
- Low insertion loss
- Excellent phase & amplitude balance
- High isolation / Low VSWR
- Power handling:
  - 1.5 Watts as a divider
  - 0.75 Watts as a combiner
- Miniature 1.5 x 2.0 mm SLP package



### Applications

- Wireless communications
- WLAN / WiMax
- SAT Radio
- ISM band equipment



**TOP VIEW**

### Description

The **VFPD205-010** is a miniature 2-way power divider optimized for the 2.4 – 2.7 GHz band as specified below. The device is offered in an easy to use 1.5 x 2.0 mm surface mount leadless package and comes available in tape and reel. The **VFPD205-010** is a fully passive monolithic device that offers very low insertion loss, high isolation, low VSWR and excellent phase and amplitude balance.

### Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Frequency Range	F		2.4		2.7	GHz
Isolation	Isol			17.0		dB
Insertion Loss	$I_L$	Above 3dB		0.50		dB
Phase balance	$\varnothing_{bal}$			$\pm 1.0$		degree
Amplitude balance	$A_{bal}$			$\pm 0.10$		dB
Input VSWR				1.40		:1
Output VSWR				1.25		:1

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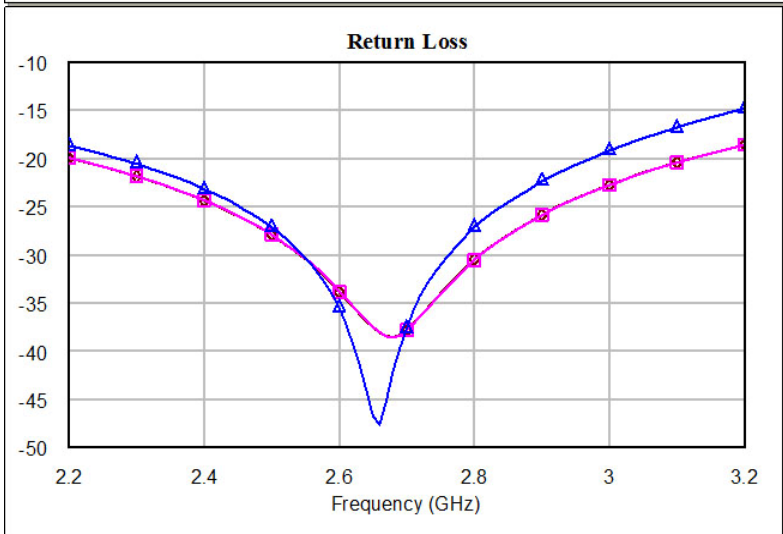
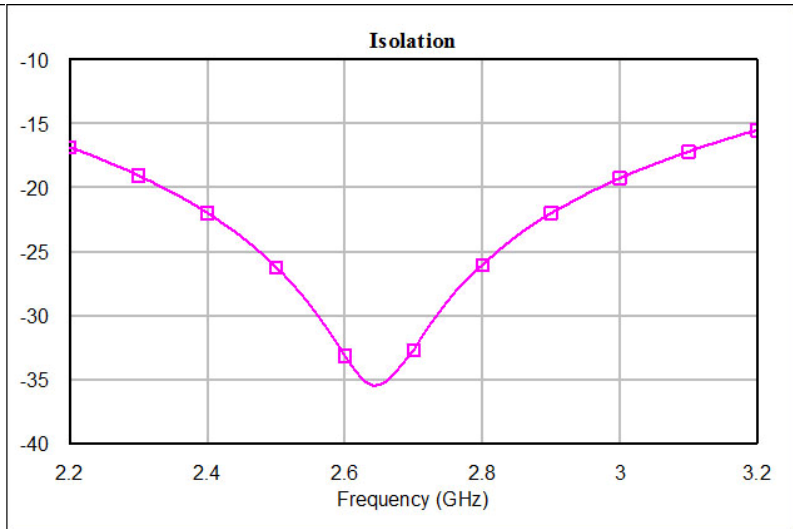
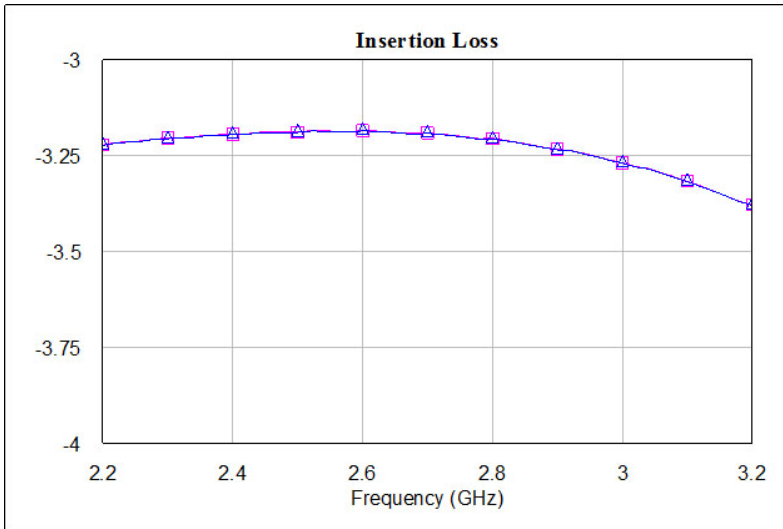
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### 2-Way Power Divider

#### 2.4 – 2.7 GHz



### Simulation Data



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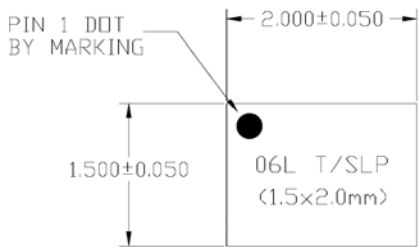
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### 2-Way Power Divider

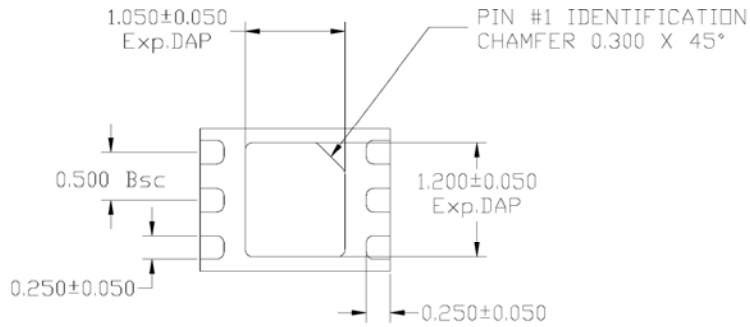
#### 2.4 – 2.7 GHz



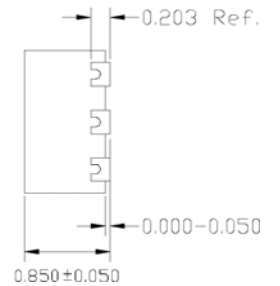
### Outline Drawing



**TOP VIEW**

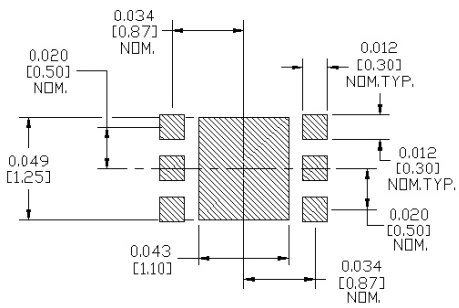


**BOTTOM VIEW**



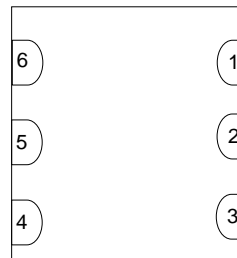
**SIDE VIEW**

### Land Pattern



**TOP VIEW**  
**SUGGESTED PCB LAND PATTERN**

### Pin Out



**BOTTOM VIEW**

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

