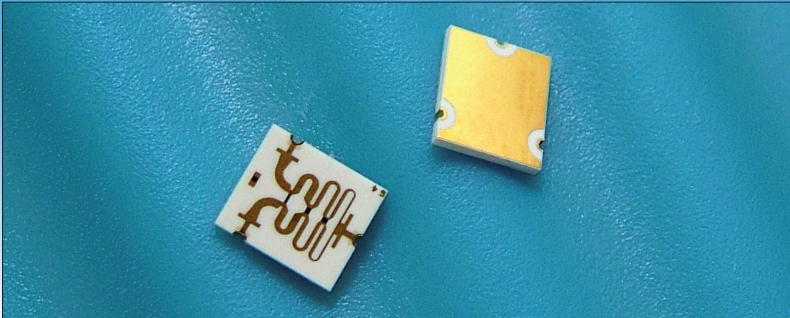


# 6 to 18 GHz Wilkinson Power Divider

**Part number: PDW05758**



## Description

DLI introduces its new high frequency surface mountable Wilkinson Power Divider. The power divider utilizes DLI's high dielectric ceramic material which provides small size and minimal performance variation over temperature. The compact size, broad band performance and ease of integration make this power divider ideal anywhere board space is of a premium and quality signal splitting or combining is required.

## Features

- Broad Band 6 to 18 GHz Performance
- 0.7dB Typical Insertion Loss
- 20dB Typical Isolation and Return Loss
- Excellent Phase and Amplitude Balance
- Compact Solder Surface Mount Package

## Specification

### Electrical

#### Frequency Range (GHz)

6 to 18

#### Nominal Power Splitting (dB)

3.0 (typical)

#### Nominal Phase Shift (degrees)

0.0 (typical)

#### Amplitude Balance (dB)

±0.025 max.

#### Phase Balance (degrees)

±3.0 (max.)

#### Excess Insertion Loss (dB)

0.7 (typical)

#### Return Loss (dB)

20 (typical)

#### Isolation (dB)

20 (typical)

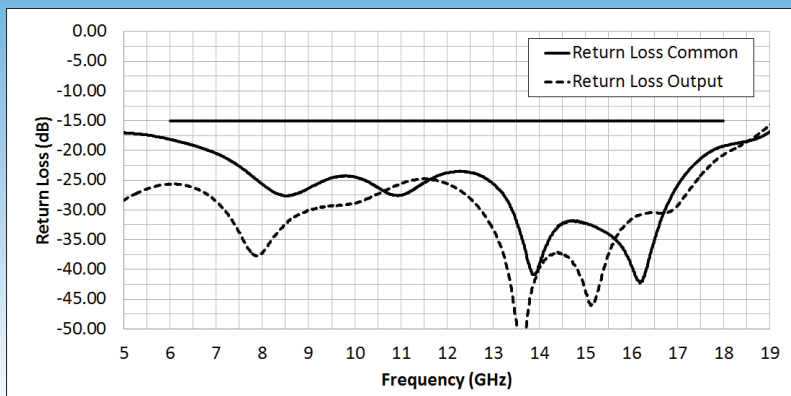
#### Input Power as a Splitter (W)<sup>2</sup>

5 (max.)

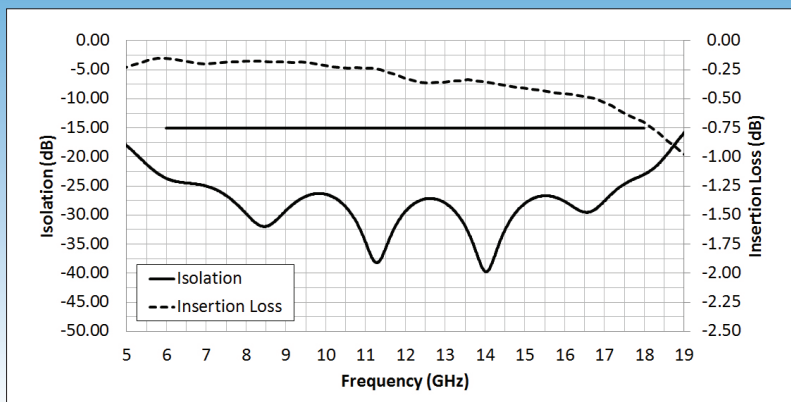
1) Electrical Specifications at 25°C; Over Temperature Performance TBD.

2) Load VSWR not to Exceed 1.20 : 1.00; Base Temperature not to Exceed 85°C.

## Typical Measured Return Loss



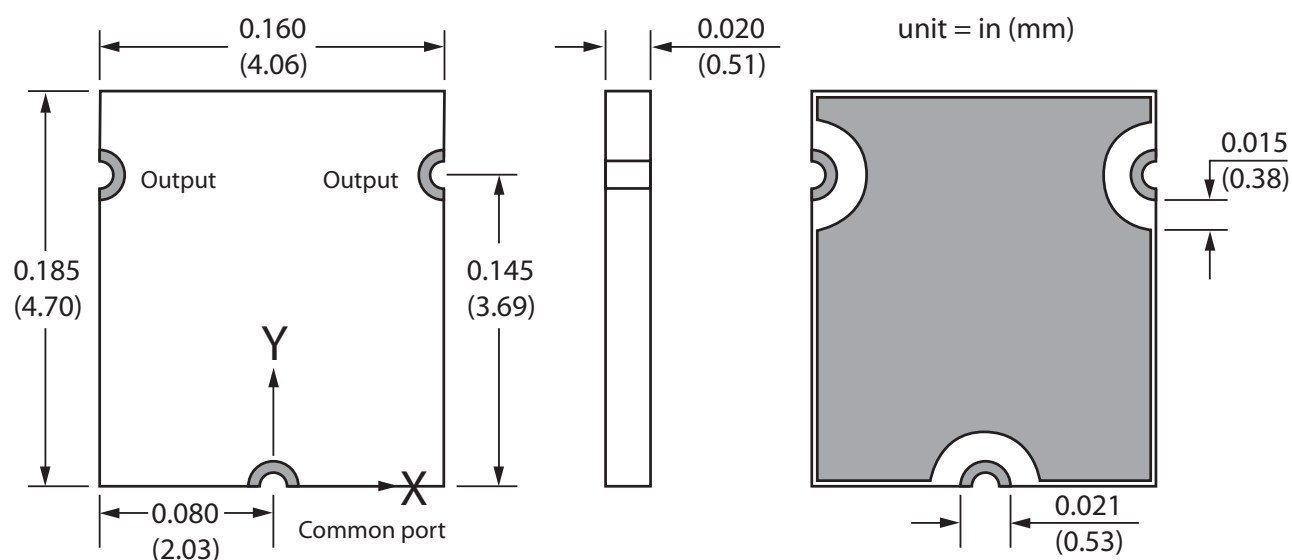
## Typical Measured Isolation and Insertion Loss



**knowles**

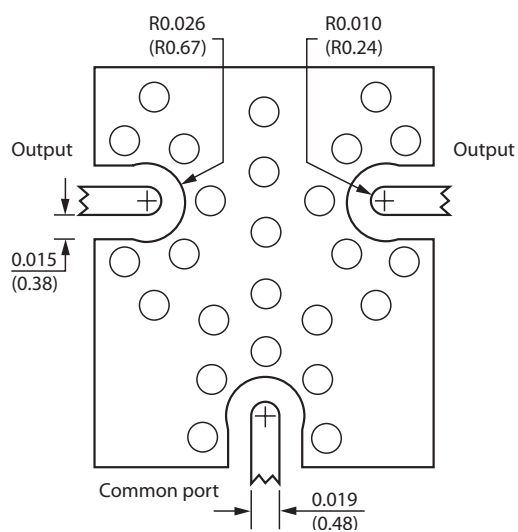
[www.knowlesc capacitors.com](http://www.knowlesc capacitors.com)

## Physical Dimensions



Shaded areas are solderable metal

## Recommended PCB Layout Dimensions



Recommended PCB Board Material : 10 mil RO4350

## Qualifications



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