Sales: 408-778-9952 | General: 408-778-4200 | Fax: 408-778-4300
Sales & Customer Support: sales@markimicrowave.com
Tech Support: support@markimicrowave.com

PD-0530SMG

General Description

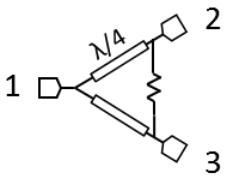
2-Way Wilkinson power dividers can be used for both in-phase power splitting and power combining applications. These power dividers feature the lowest insertion loss (ideally 3 dB splitting loss), excellent amplitude and phase balance, and high isolation across the entire operating band. High isolation can be critically important for power combining applications, such as when performing accurate intermodulation distortion (IMD) tests.

Download s-parameters here

Features

- 5 to 30 GHz In Phase Power Splitting
- 1.5 dB Typical Insertion Loss
- 25 dB Typical Output to Output Isolation
- Surface Mount Package

Functional Block Diagram





Electrical Performance Summary

Parameter	Typ	Unit
Frequency Range	5 to 30	GHz
Phase Balance	2	°
Excess Insertion Loss	1.5	dB
No. Ways	Wilkinson 1:2	-
RF Power Handling as a Power Divider	10	W
Amplitude Balance	0.01	dB
Isolation	25	dB

Summary only – refer to the Electrical Specifications, Absolute Maximum Ratings, and Recommended Operating Range tables for complete details.

Part Ordering Options

Part Number	Description	Package	Green Status	Product Lifecycle	Export Classification	Recommended Replacement
PD-0530SMG	Wilkinson Power Divider	SMG	REACH RoHS	Not Recommended for New Design	EAR99	-
EVAL-PD-0530SM	Evaluation Board, 5 - 10 GHz Wilkinson Power Divider	EVAL	Non-RoHS	Not Recommended for New Design	EAR99	-

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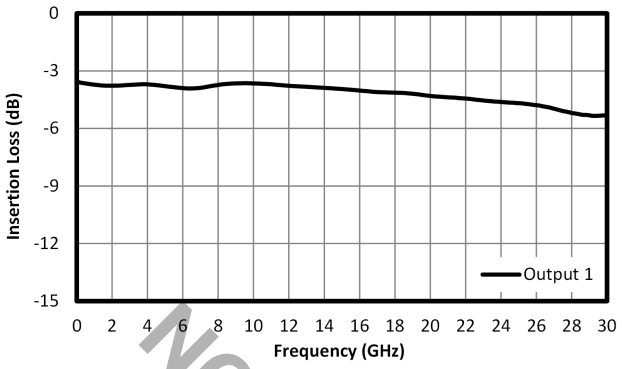
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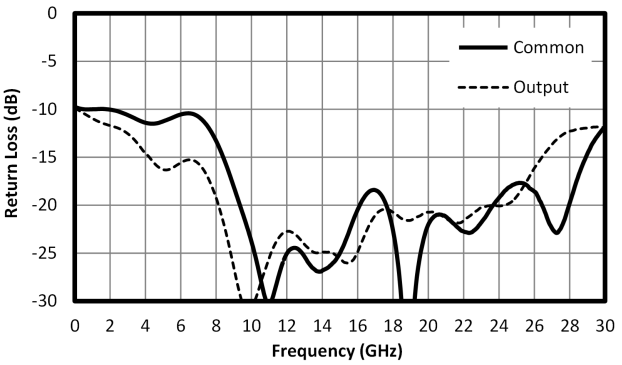
- **Device Overview**
  - General Description
  - Features
  - Functional Block Diagram
  - Electrical Performance Summary
  - Part Ordering Options
- **Specifications**
  - Typical Performance
  - Typical Performance Over Temperature
  - Electrical Specifications
  - Absolute Maximum Ratings
  - Package Information
- **Mechanical Data**
  - Outline Drawing
- **Footprint Image**
- **Evaluation Board**
- **Revision History**

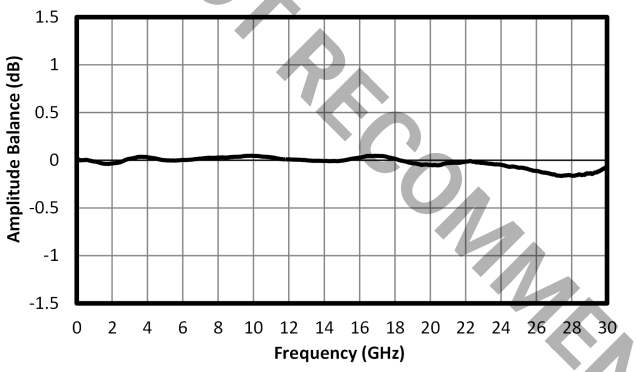
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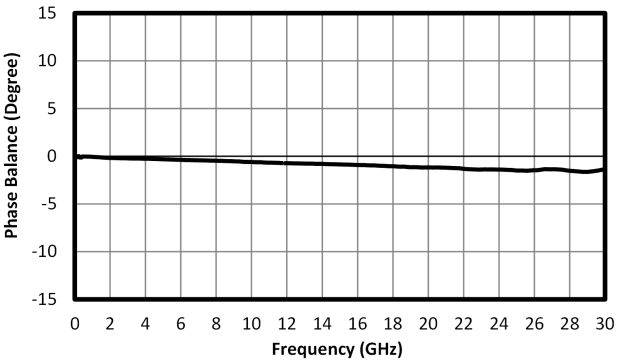
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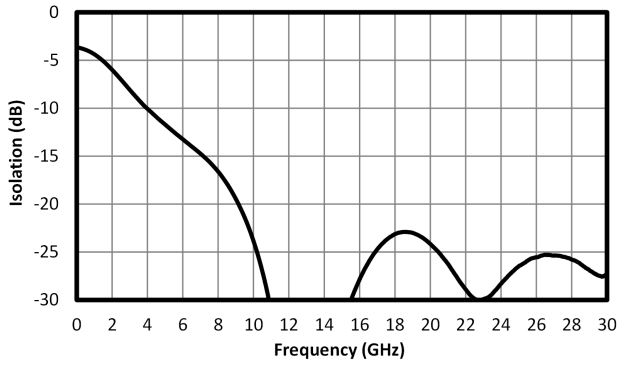
Typical Performance



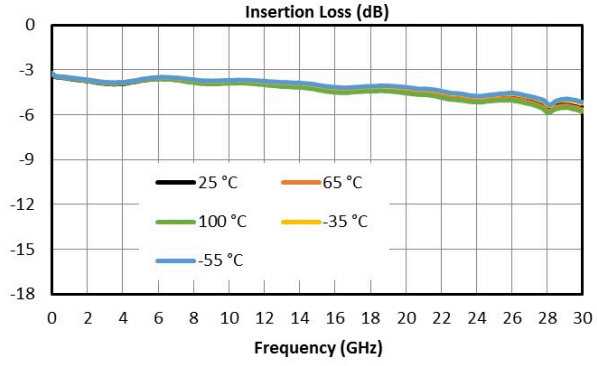


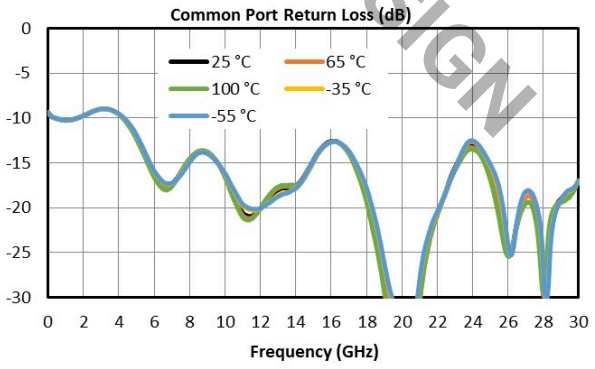






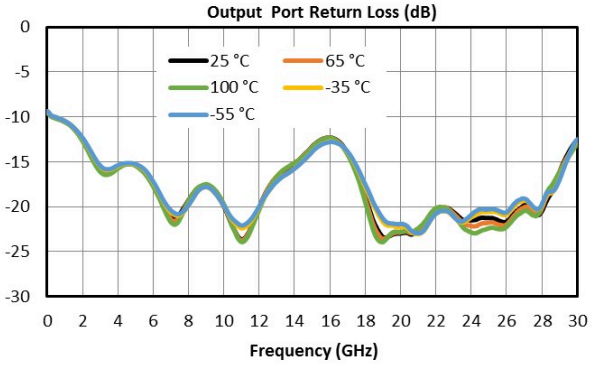
Typical Performance Over Temperature

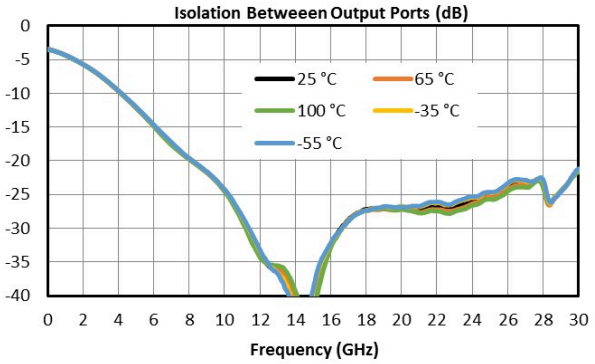


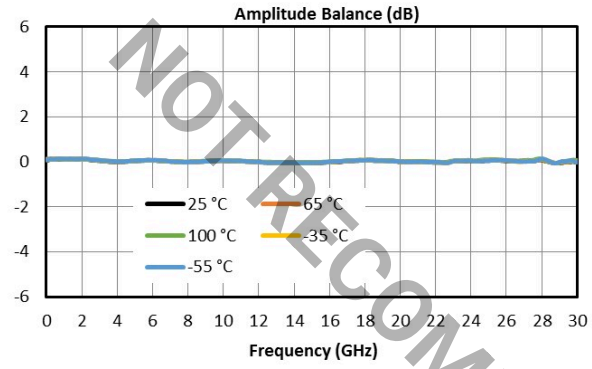


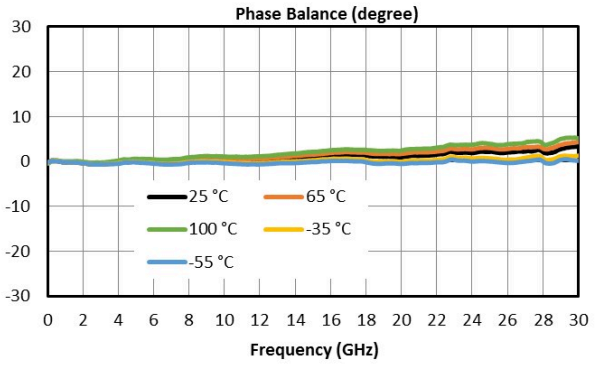
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SPECIFICATIONS

Electrical Specifications

Specifications guaranteed from -55 to +100°C, measured in a 50Ω system.

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Frequency Range	-	5	30	-	-	-	GHz
Amplitude Balance	-	5	30	-	0.01	-	dB
Excess Insertion Loss [1]	-	5	30	-	1.5	3	dB
Isolation	-	5	30	-	25	-	dB
Nominal Phase Shift	-	5	30	-	0	-	°
Nominal Power Splitting	-	5	30	-	3	-	dB
Phase Balance	-	5	30	-	2	-	°
VSWR	-	5	30	-	1.4	-	-

[1] Excess Insertion Loss = (Input Port to Common Port Insertion Loss) - 3dB

Absolute Maximum Ratings

Parameter	Maximum Rating	Unit
RF Power Handling as a Power Combiner	1	W
RF Power Handling as a Power Divider	10	W

Package Information

Parameter	Details	Rating
Dimensions	-	3.81 x 6.10 mm
Moisture Sensitivity Level	-	MSL 3

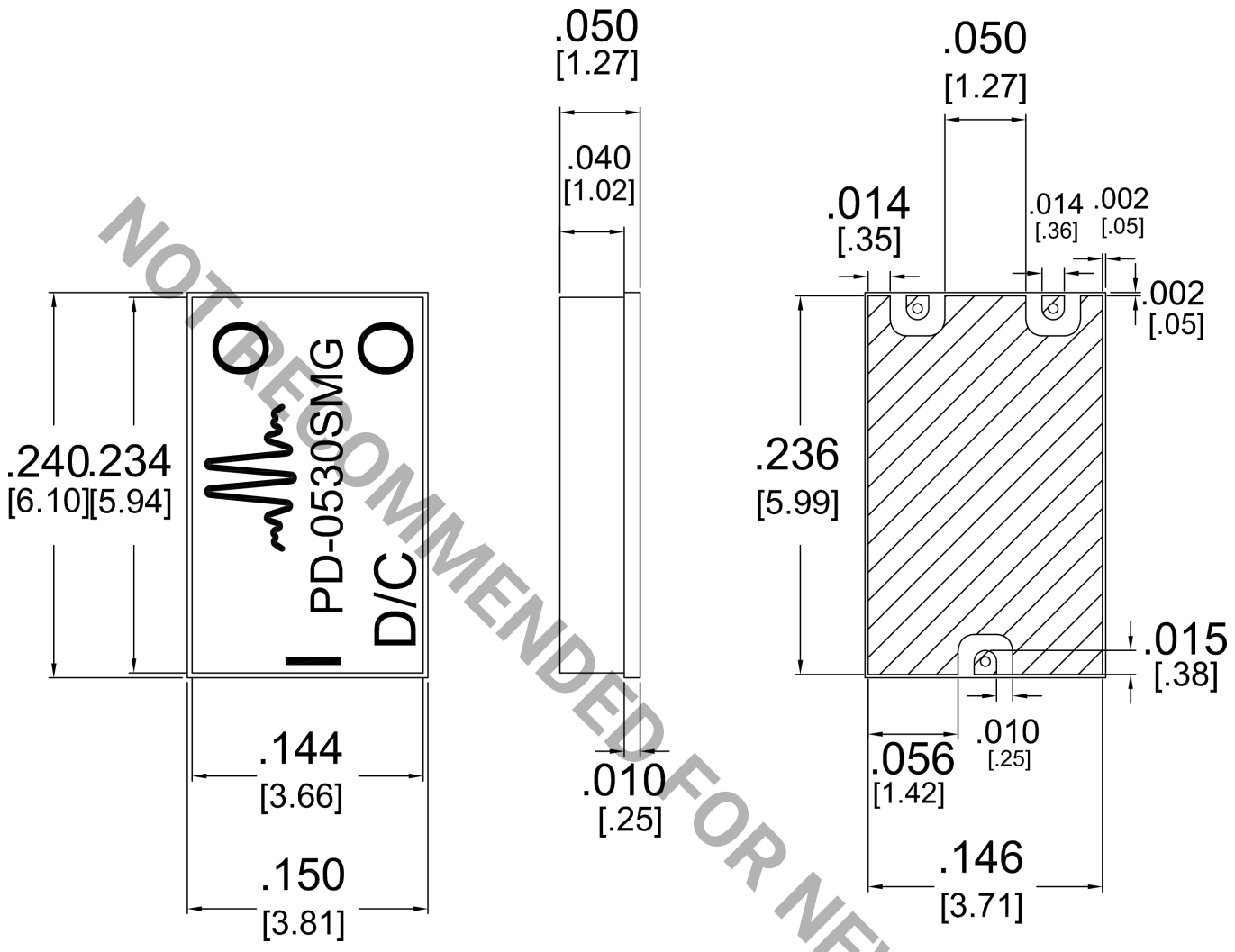
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MECHANICAL DATA

Outline Drawing

Download : Outline 2D Drawing | Outline 3D Drawing | Outline 3D STP

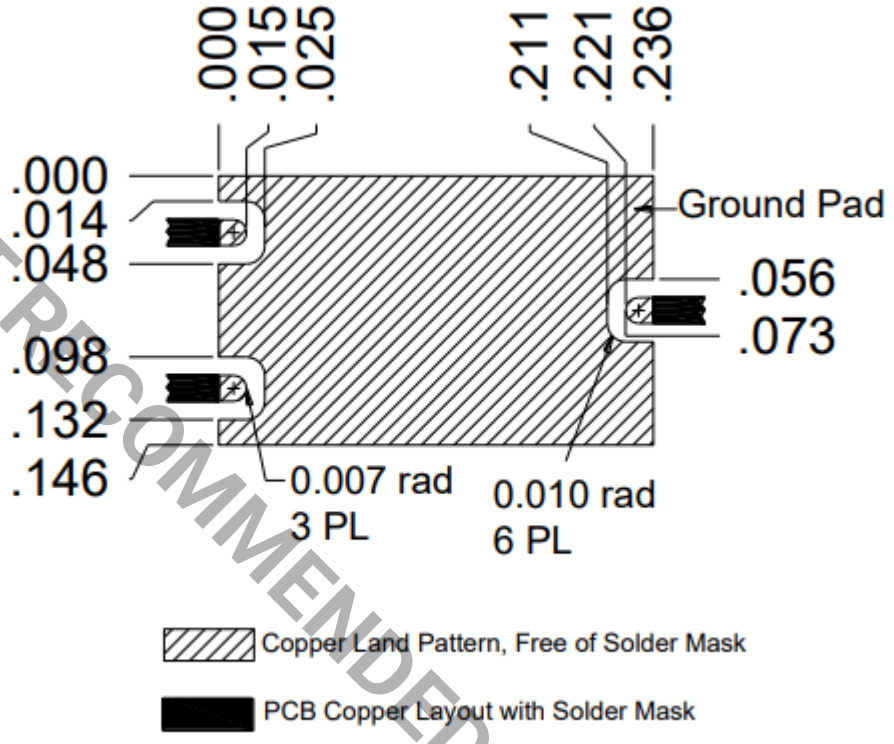


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FOOTPRINT IMAGE

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REVISION HISTORY

Revision Code	Revision Date	Comment
B	2020-12-01	Performance Over Temperature Plots
C	2025-12-17	Power Handling Updated

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