

PD-0030SMG

Resistive Power Divider

DEVICE OVERVIEW

General Description

The PD-0030SMG is a surface mount resistive 2-way power divider that features broadband operation from DC to 30 GHz. Resistive power dividers offer 6 dB nominal insertion loss and excellent amplitude and phase balance. Resistive power dividers are not recommended for use as a power combiner due to the lack of isolation.

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Features

- DC to 30 GHz In-phase Power Splitting
- 1 dB Typical Insertion Loss
- Miniature Surface Mount Package

Applications

N/A

Functional Block Diagram

N/A

Part Ordering Options

Part Number	Description	Package	Packing Size	Green Status	Product Lifecycle	Export Classification
PD-0030SMG	Resistive Power Divider	SMG	-	RoHS	Released	EAR99

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Revision History

Revision Code	Revision Date	Comment
-	2018-05-03	Datasheet Initial Release

Port Configuration and Functions

Port Functions

Port	Function	Description	Equivalent Circuit for Package
1	In/Out 1	RF input/output 1 of the combiner.	-
2	In/Out 2	RF input/output 2 of the combiner.	-
3	In/Out 3	RF input/output 3 of the combiner.	-

Specifications

Package Information

Parameter	Details	Rating
Dimensions	-	3.81 x 6.10 mm

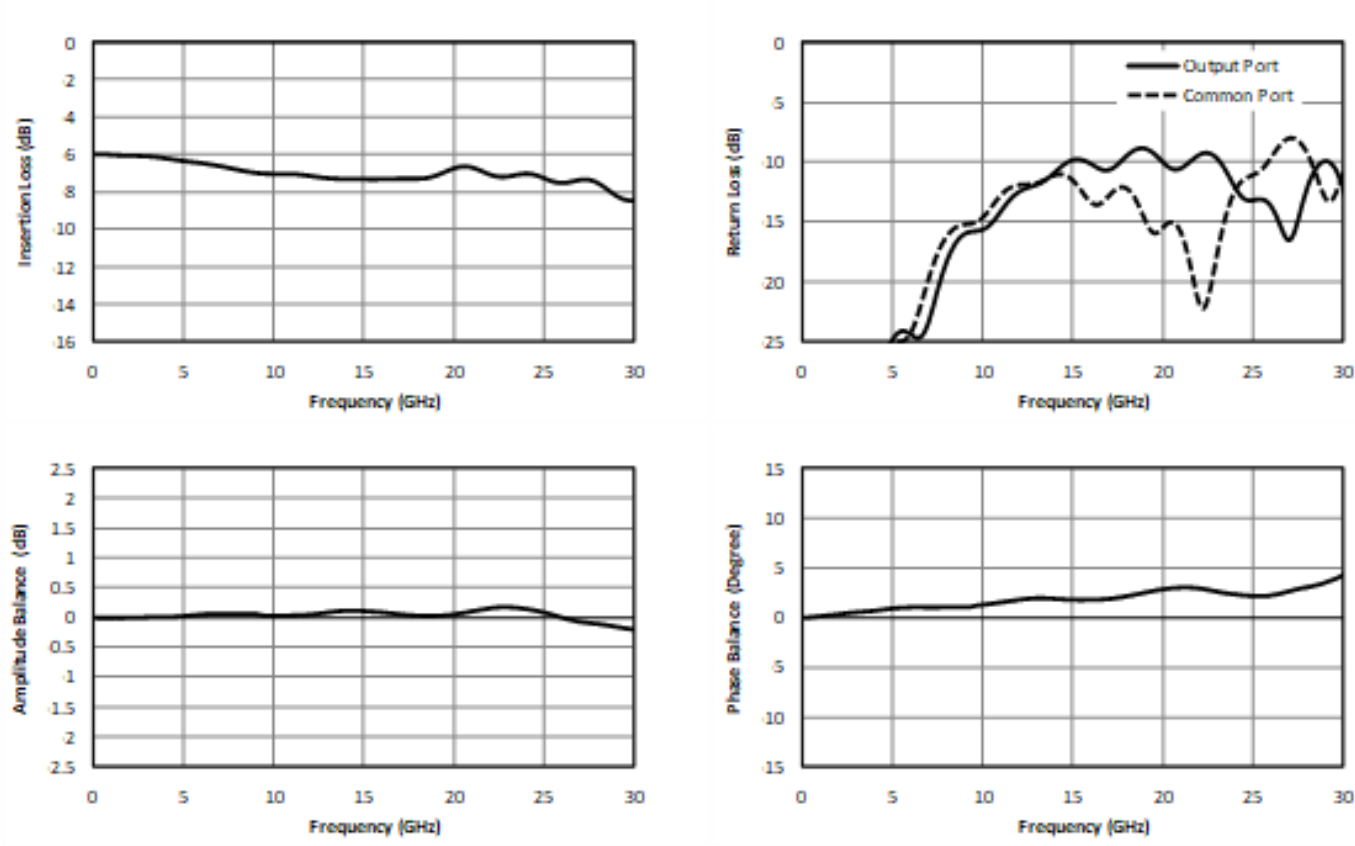
Electrical Specifications

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
Nominal Phase Shift	DC-30 GHz	-	-	-	0	-	°
Phase Balance	DC-30 GHz	-	-	-	3	-	°
Insertion Loss ¹	DC-30 GHz	-	-	-	1	3	dB
VSWR	DC-30 GHz	-	-	-	1.6	-	-
Amplitude Balance	DC-30 GHz	-	-	-	0.25	-	dB
Input Power	DC-30 GHz	-	-	-	-	1	W
Nominal Power Splitting (dB)	DC-30 GHz	-	-	-	6	-	dB

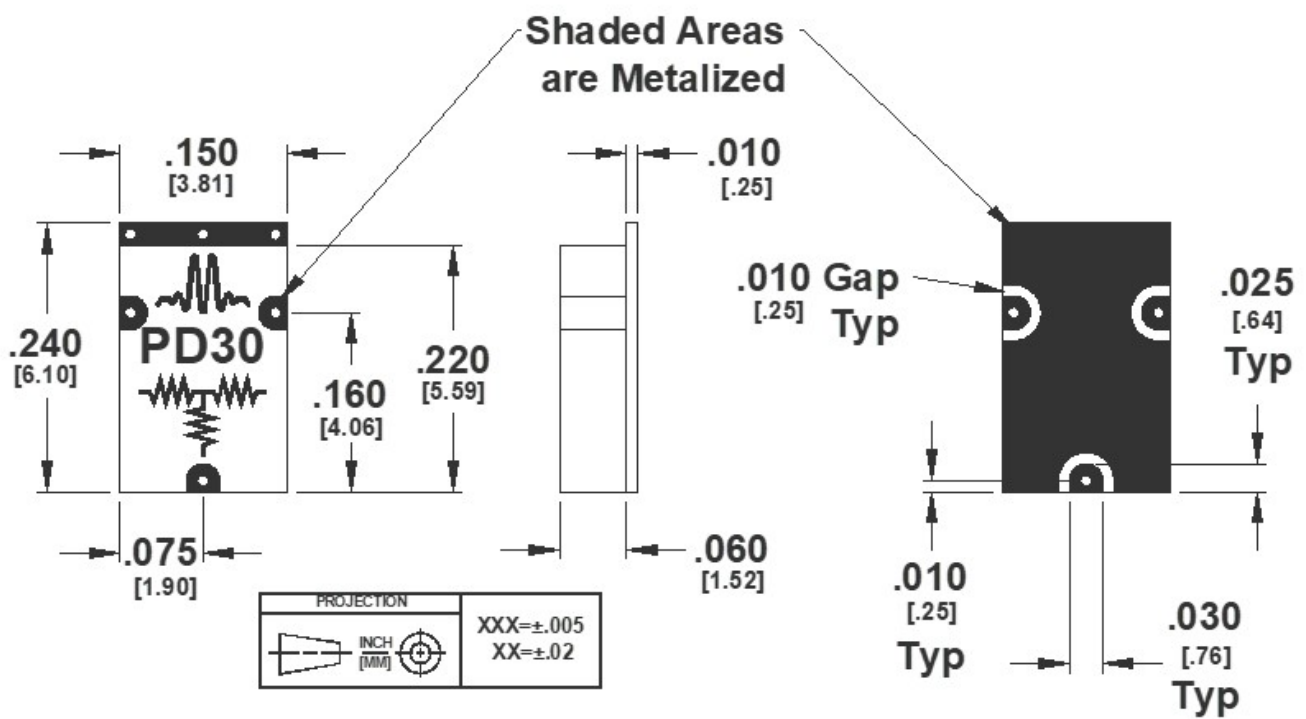
^[1] Excess Insertion Loss = (Input Port to Common Port Insertion Loss) - 6dB

Typical Performance



Mechanical Data

Outline Drawing



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