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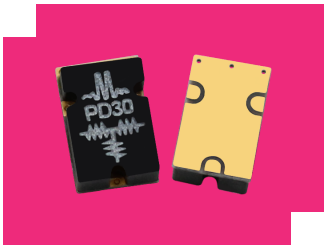
PD-0030SMG

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.



Download s-parameters here

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	Green Status	Product Lifecycle	Export Classification
PD-0030SMG	Resistive Power Divider	SMG	REACH RoHS	Released	EAR99

Table Of Contents

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
Moisture Sensitivity Level	-	MSL 3

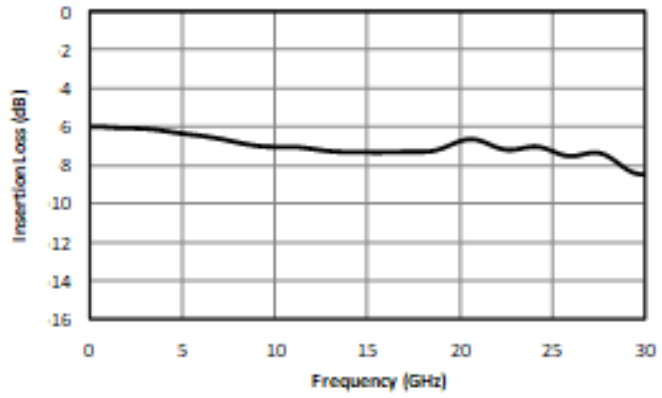
Electrical Specifications

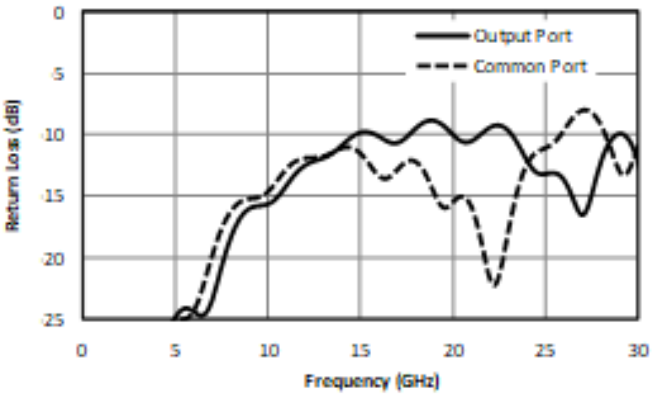
Specifications guaranteed from -55 to +100°C, measured in a 50Ω system.

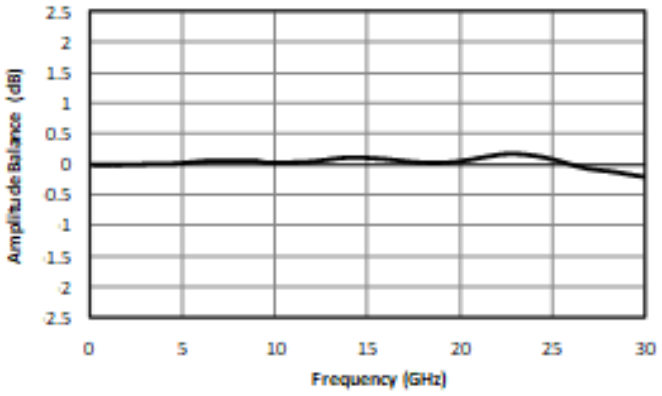
Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Amplitude Balance	DC-30 GHz	-	-	-	0.25	-	dB
Input Power	DC-30 GHz	-	-	-	-	1	W
Insertion Loss [1]	DC-30 GHz	-	-	-	1	3	dB
Nominal Phase Shift	DC-30 GHz	-	-	-	0	-	°
Nominal Power Splitting (dB)	DC-30 GHz	-	-	-	6	-	dB
Phase Balance	DC-30 GHz	-	-	-	3	-	°
VSWR	DC-30 GHz	-	-	-	1.6	-	

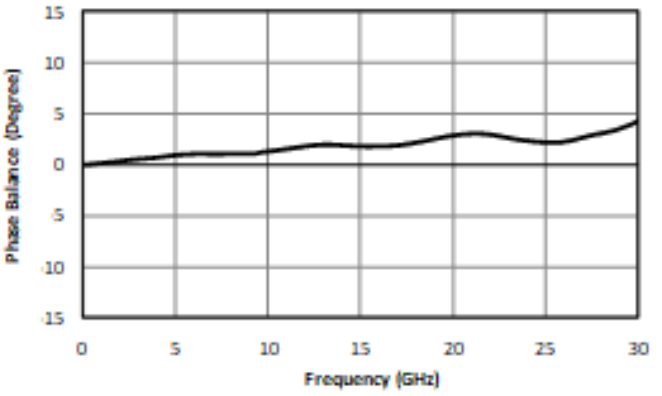
[1] Excess Insertion Loss = (Input Port to Common Port Insertion Loss) - 6dB

Typical Performance





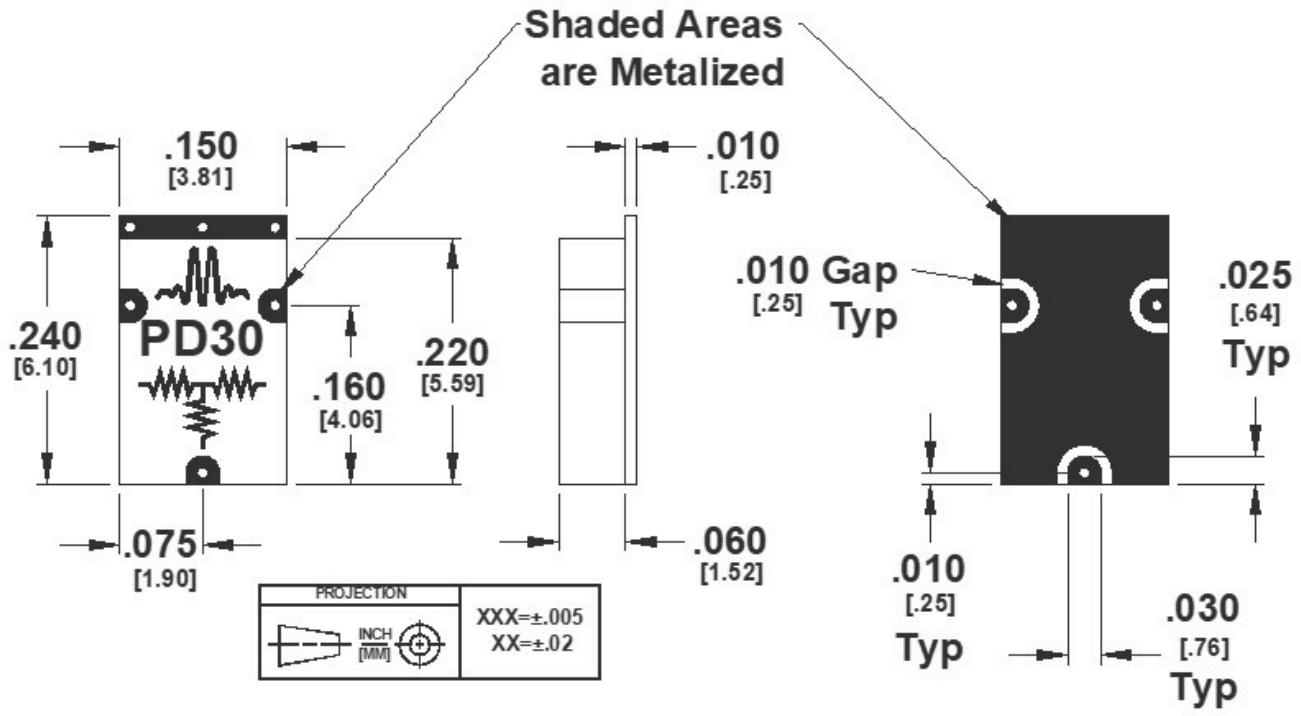




Mechanical Data

Outline Drawing

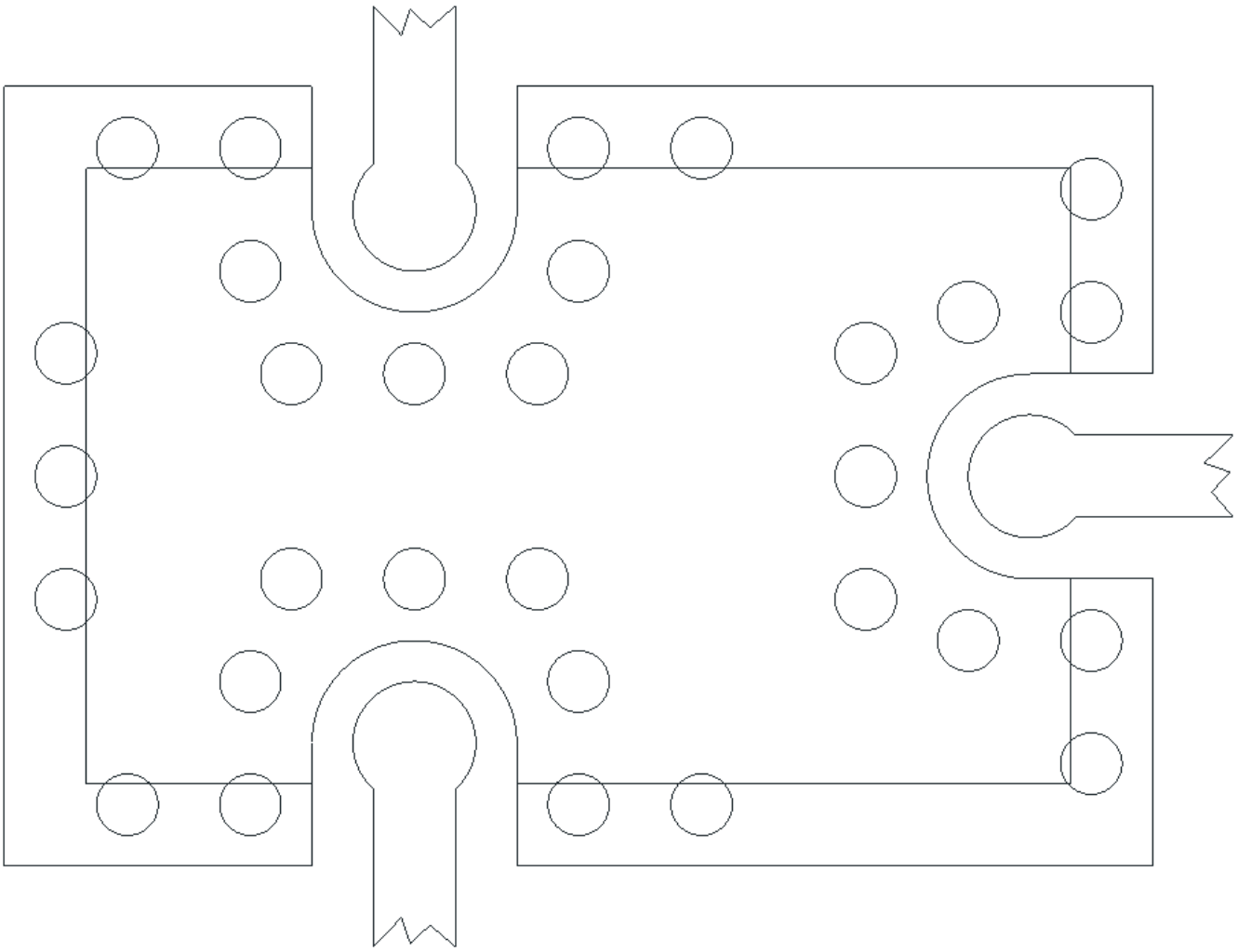
Download : Outline 2D Drawing | Outline 3D Drawing | Outline 3D STP



Termination Finish is Gold Flash, 5 to 10 µ-inches, over SolderableElectroless Nickel, 100-200 µ-inches

Footprint Image

Download : Footprint Drawing



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