

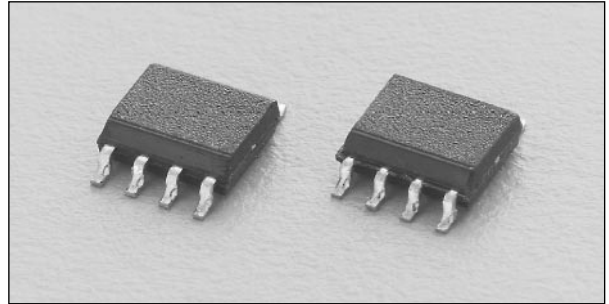
Two-Way 0° Power Splitter Combiner 1.71–1.99 GHz

Alpha

PD18-12

Features

- Low Cost
- Low Profile
- Available in Small SOIC-8 Package
- Tape & Reel



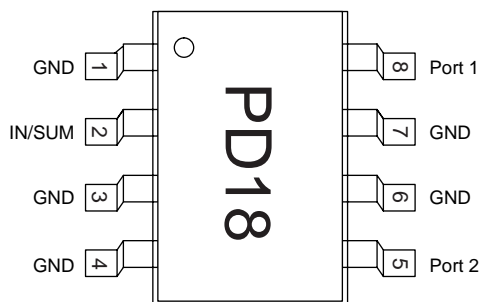
Description

The PD18-12 is a monolithic two-way in-phase hybrid junction tuned for the 1.71–1.99 GHz band. It offers low loss, high isolation, good input/output matching and exceptional phase/amplitude balance. It is available in the SOIC-8 leaded surface mount package.

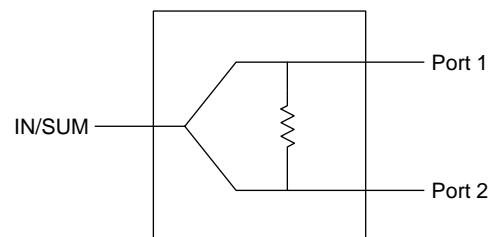
Electrical Specifications at 25°C

Parameter	Min.	Typ.	Max.	Unit
Frequency	1.71		1.99	GHz
Insertion Loss Less 3 dB Split		0.4	0.6	dB
Isolation	20	23		dB
Input VSWR		1.3:1	1.5:1	
Output VSWR		1.2:1	1.4:1	
Amplitude Balance		±0.1	±0.2	dB
Phase Balance		±1.0	±3.0	Deg.

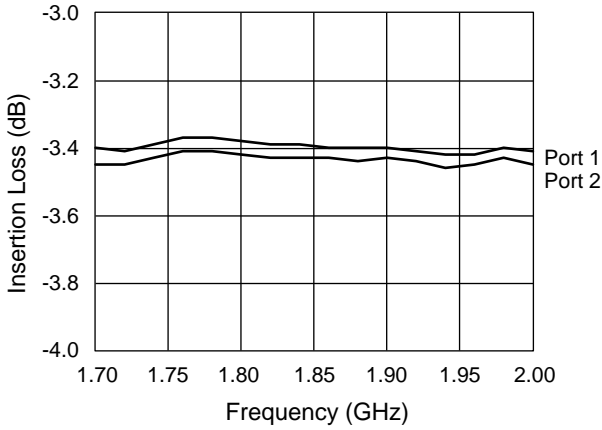
Pin Out



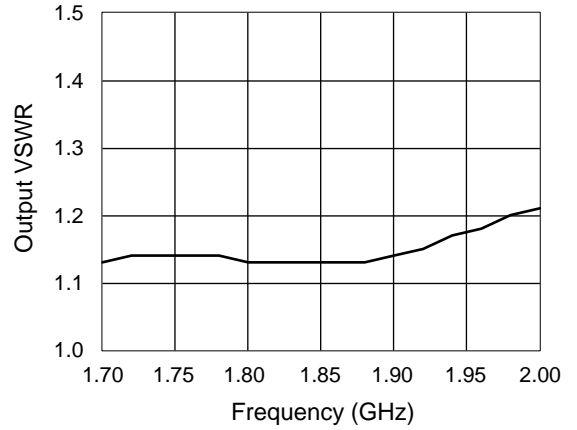
Block Diagram



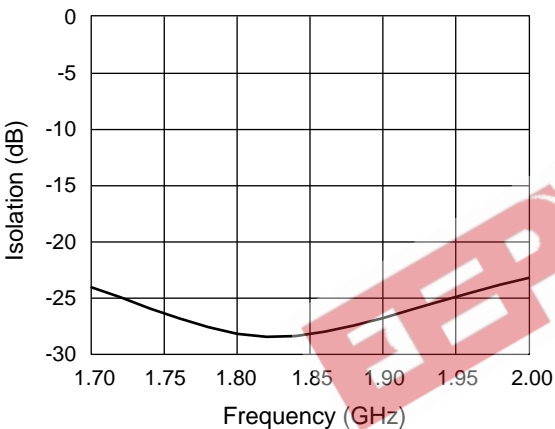
Typical Performance Data



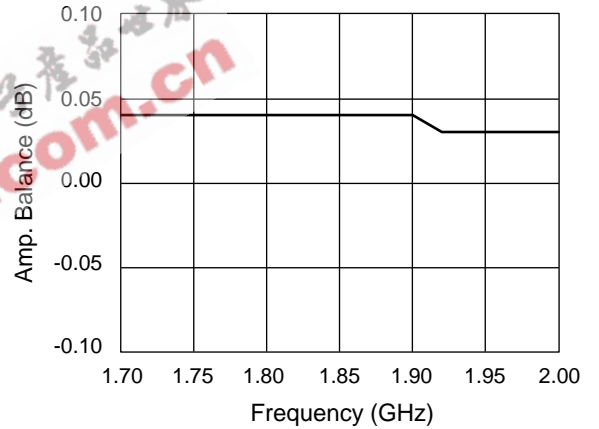
Insertion Loss vs. Frequency



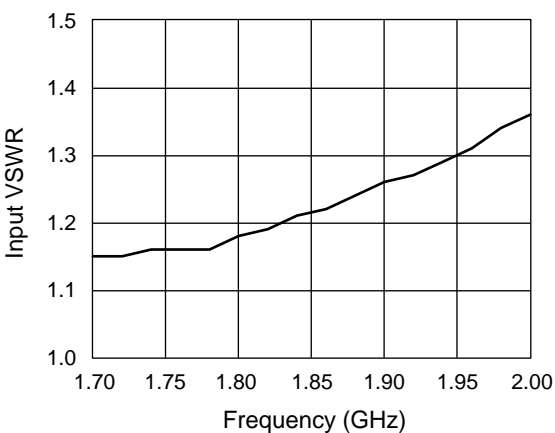
Output VSWR vs. Frequency



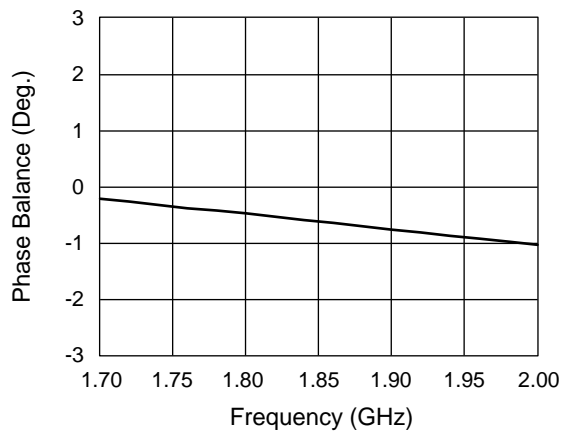
Isolation vs. Frequency



Amp. Balance vs. Frequency

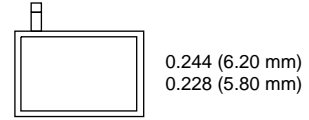


Input VSWR vs. Frequency

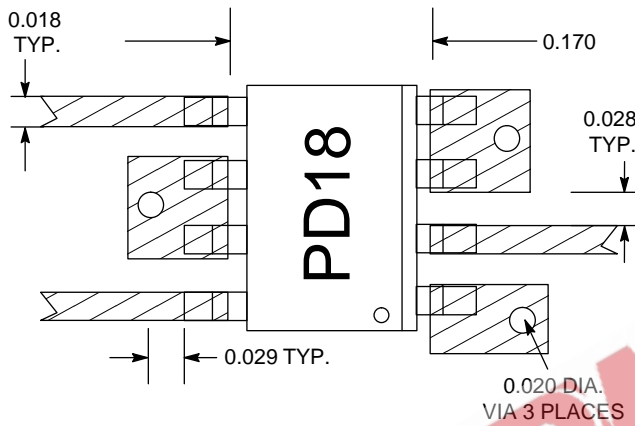


Phase Balance vs. Frequency

SOIC-8



Recommended Board Layout



Material is 10 mil FR4

