

Surface Mount Quadrature Hybrid, 200 - 400 MHz

Rev. V3

Features

- Fully Hermetic
- · Octave Bandwidth
- Low VSWR: 1.1:1 Typical
- Impedance: 50 Ohms Nominal
- Input Power: 5 Watts Max @ +25°C, Derated to 1 Watt @ +85°C
- Typical Phase Linearity: 3° from straight line
- MIL-STD-202 Screening Available

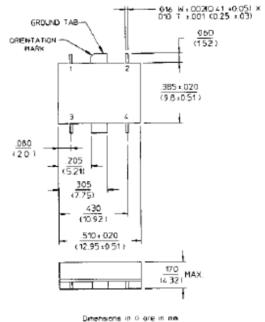
Description

3 dB Hybrids are ideal for dividing a signal into two signals of equal amplitude and a constant 90° or 180° phase differential and for Quadrature combining or performing summation/differential combining.

Phasing Diagram

OUT	Α	В	С	D
Α	><	ISO	-90°	0°
В	ISO	\times	0°	-90°
С	-90°	0°	\times	ISO
D	0°	-90°	ISO	

SF-1



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Pin Configuration

Pin No.	Function	Pin No.	Function	
1	Α	3	D	
2	В	4	С	

Electrical Specifications¹: Freq. = 200 - 400 MHz, T_A = -55°C to +85°C

Parameter	Test Conditions	Units	Min	Тур	Max
Insertion Loss ²	Less Coupling	dB	_	_	0.5
Isolation	_	dB	18	_	_
Amplitude Balance	_	dB	_	_	1.0
VSWR	_	Ratio	_	_	1.3:1
Deviation from Quadrature	_	۰	_	_	4

^{1.} All specifications apply with 50 ohm source and load impedance.

^{2.} Average of coupled output less 3 dB.

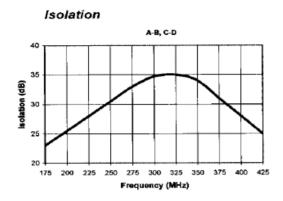
This product contains elements protected by United States Patent Number 3,484,724.



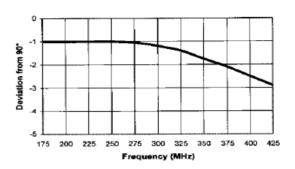
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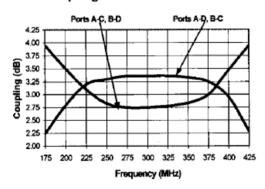
Typical Performance Curves



Deviation from Quadrature



Coupling



Ordering Information

Part Number	Package
JHS-142 PIN	SF-1

JHS-142



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