



Quadrature Hybrid, 250 - 500 MHz

JH-/JHS-139 V3

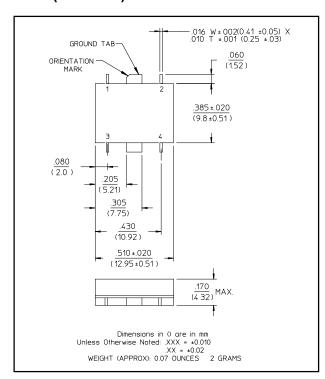
Features

- · Octave Bandwidth
- Low VSWR: 1.1:1 Typical
- High Isolation: 30 dB Typical
- Impedance: 50 Ohms Nominal
- Input Power: 4 Watts Max.@ 25°C, Derated to 1
 - Watt @ 85°C
- 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.

SF-1 (JHS-139)

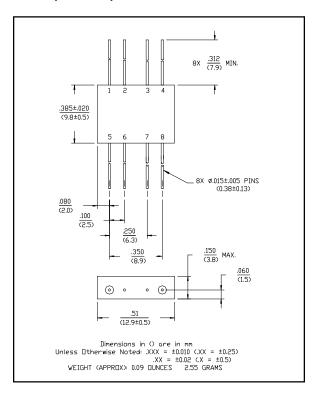


Pin Configuration (JHS-139)

information.

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

FP-2 (JH-139)



Pin Configuration (JH-139)

Pin No.	Function	Pin No.	Function
1	Α	5	О
2	GND	6	GND
3	GND	7	GND
4	В	8	С

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Electrical Specifications¹: $T_A = -55$ °C to +85°C

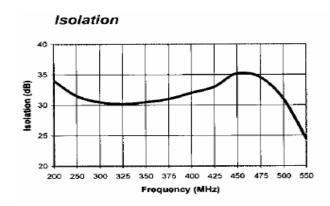
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss ²	Less Coupling	250 - 500 MHz	dB	_	_	0.5
Isolation	_	250 - 500 MHz	dB	15	_	_
Amplitude Balance	_	250 - 500 MHz	dB	_	_	1.0
VSWR	_	250 - 500 MHz	Ratio	_	_	1.5:1
Deviation from Quadrature	_	250 - 500 MHz	٥	_	_	4

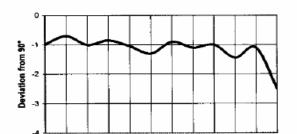
^{1.} All specifications apply with 50 ohm source and load impedance.

Phasing Diagram

OUT	A	В	С	D
Α	\times	ISO	0°	-90°
В	ISO	X	-90°	0°
С	0°	90°	\times	ISO
D	-90°	0°	ISO	\times

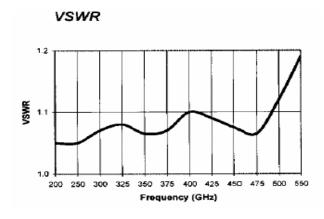
Typical Performance Curves





450 475

Deviation from Quadrature



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200 250 300 325 350 375 400 425

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Frequency (MHz)

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

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

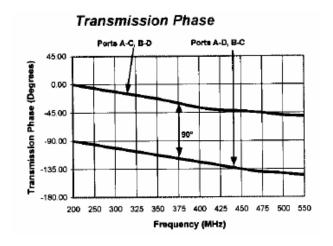


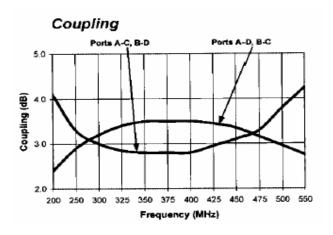


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Typical Performance Curves





Ordering Information

Part Number	Package
JH-139 PIN	FP-2
JHS-139 PIN	SF-1

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