Quadrature Hybrid, 100 - 200 MHz

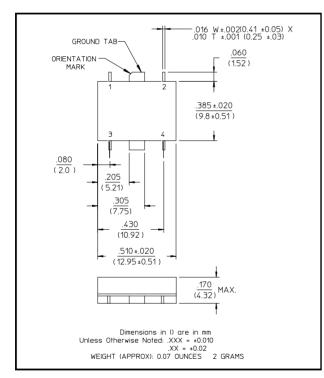
Features

- Octave Bandwidth •
- Low VSWR: 1.2:1
- 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-121)



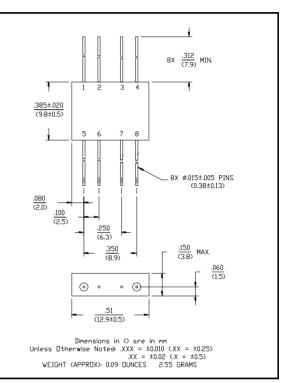
Pin Configuration (JHS-121)

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

1

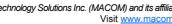
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FP-2 (JH-121)



Pin Configuration (JH-121)

Pin No.	Function	Pin No.	Function
1	А	5	D
2	GND	6	GND
3	GND	7	GND
4	В	8	С







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Electrical Specifications¹: $T_A = -55^{\circ}C$ to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss ²	Less Coupling	100 - 200 MHz	dB	—	—	0.75
Isolation	—	100 - 200 MHz	dB	20	—	_
Amplitude Balance	_	100 - 200 MHz	dB	—	—	1.0
VSWR	—	100 - 200 MHz	Ratio	—	—	1.3:1
Deviation from Quadrature	_	100 - 200 MHz	o	—	—	3

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

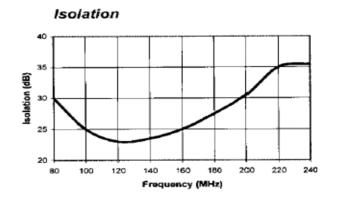
2. Average of coupled output less 3 dB.

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

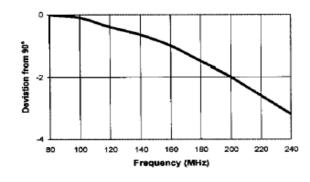
Phasing Diagram

	A	В	С	D
А	\times	ISO	0°	-90°
В	ISO	\times	-90°	0°
С	0°	90°	\times	ISO
D	-90°	0°	ISO	\times

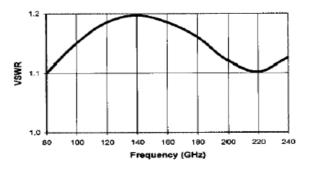
Typical Performance Curves



Deviation from Quadrature



VSWR



2

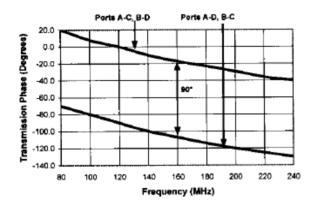
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Typical Performance Curves

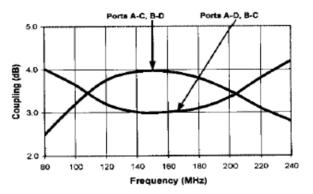
Transmission Phase



Ordering Information

Part Number	Package
JH-121 PIN	FP-2
JHS-121 PIN	SF-1

Coupling



3

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Quadrature Hybrid, 100 - 200 MHz



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