

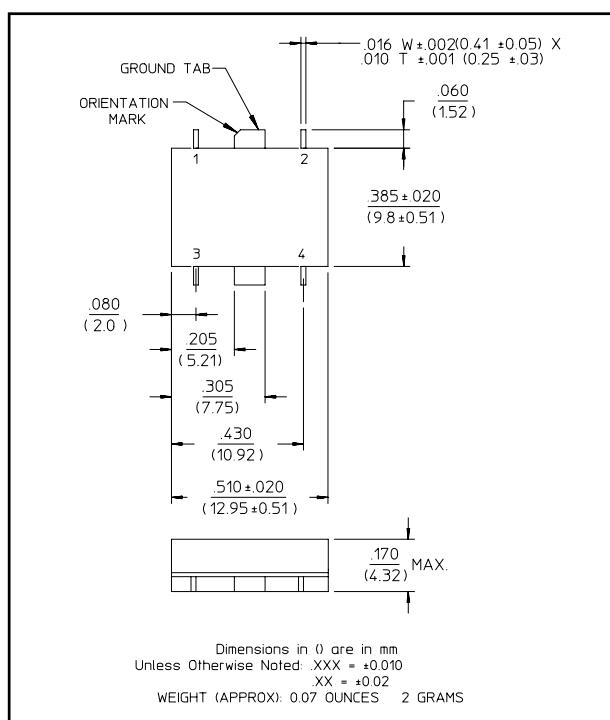
### Features

- Octave Bandwidth
- Low VSWR: 1.2:1
- Low Loss: 0.5 dB Max.
- Impedance: 50 Ohms Nominal
- Input Power: 4 Watts Max. @ 25°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.

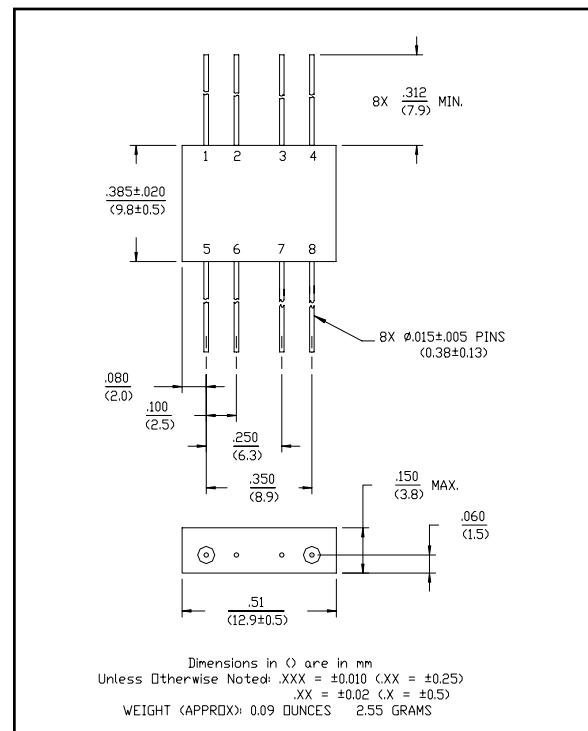
### SF-1 (JHS-113)



### Pin Configuration (JHS-113)

Pin No.	Function	Pin No.	Function
1	A	3	D
2	B	4	C

### FP-2 (JH-113)



### Pin Configuration (JH-113)

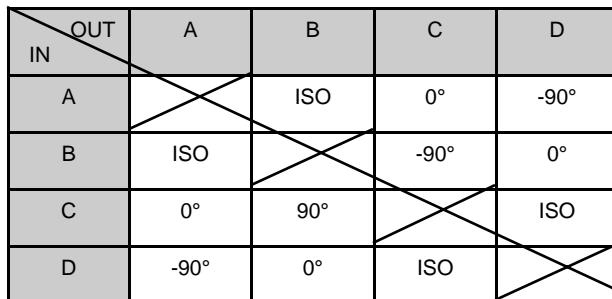
Pin No.	Function	Pin No.	Function
1	A	5	D
2	GND	6	GND
3	GND	7	GND
4	B	8	C

## Electrical Specifications<sup>1</sup>: $T_A = -55^{\circ}\text{C}$ to $+85^{\circ}\text{C}$

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss <sup>2</sup>	Less Coupling	7 - 14 MHz	dB	—	—	0.5
Isolation	—	7 - 14 MHz	dB	20	—	—
Amplitude Balance	—	7 - 14 MHz	dB	—	—	0.75
VSWR	—	7 - 14 MHz	Ratio	—	—	1.2:1
Deviation from Quadrature	—	7 - 14 MHz	°	—	—	3

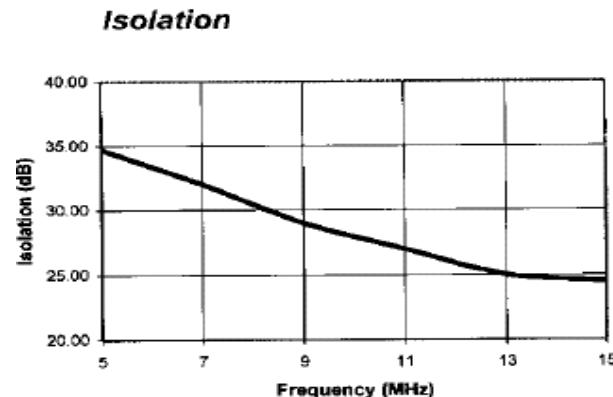
1. All specifications apply with 50 ohm source and load impedance.
2. Average of coupled output less 3 dB.

## Phasing Diagram

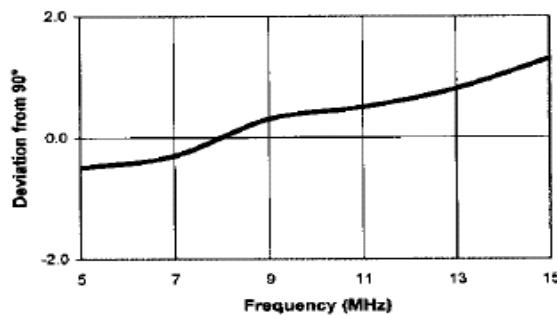


All other pins and case are ground.

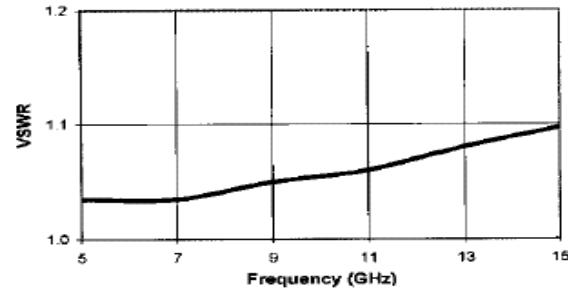
## Typical Performance Curves



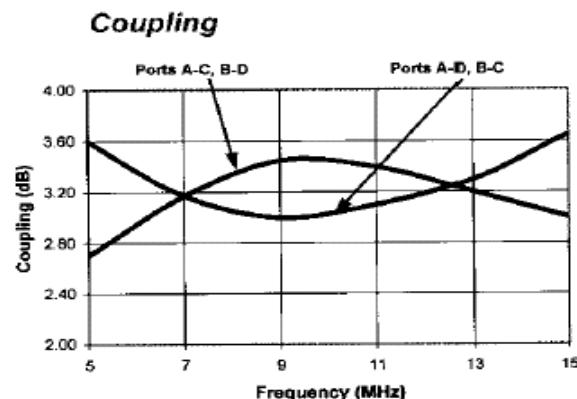
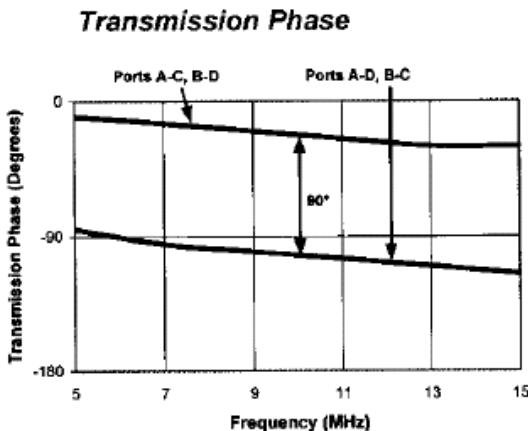
## Deviation from Quadrature



## VSWR (All Ports)



## Typical Performance Curves



## Ordering Information

Part Number	Package
JH-113 PIN	FP-2
JHS-113 PIN	SF-1

# Mouser Electronics

Authorized Distributor

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