

# Quadrature Hybrid 7 - 14 MHz

## JH-/JHS-113

V2.00

### Features

- Octave Bandwidth
- Low VSWR: 1.2:1
- Low Loss: 0.5 dB Max.
- Impedance: 50 Ohms Nom.
- Input power: 4 W. Max. @ 25°C
- MIL-STD-202 Screening Available

### Guaranteed Specifications\* (From -55°C to +85°C)

Frequency Range	7 - 14 MHz
Insertion Loss (less Coupling)	0.5 dB Max.**
Isolation	20 dB Min.
Amplitude Balance	0.75 dB Max.
VSWR	1.2:1 Max.
Deviation from Quadrature	3° Max.

\*All specifications apply with 50 ohm source and load impedance.

\*\*Average of coupled outputs less 3 dB.

### Pin Configuration

FP-2	A; P1, B; P4, C; P8, D; P5 Case and all other pins are ground.
SF-1	A; P1, B; P2, C; P4, D; P3 Case and all other pins are ground.

### Phasing Diagram

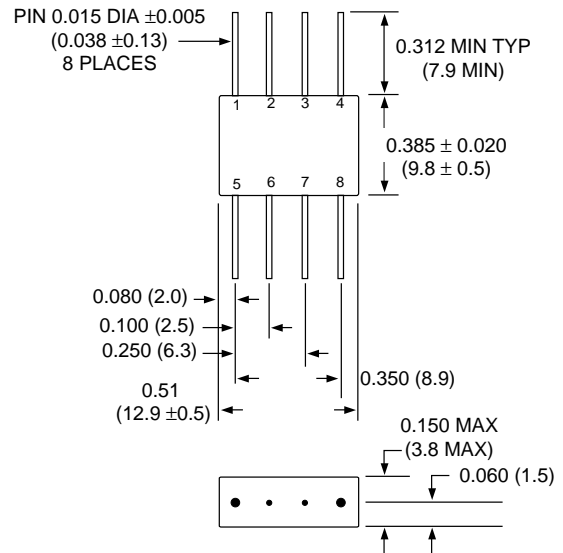
FP-2					SF-1						
IN	OUT	1	4	8	5	IN	OUT	1	2	4	3
1		ISO.	0°	90°		1		ISO.	0°	90°	
4		ISO.	-90°	0°		2		ISO.	-90°	0°	
8		0°	90°	ISO.		4		0°	90°	ISO.	
5		-90°	0°	ISO.		3		-90°	0°	ISO.	

All other pins and case are ground

### Ordering Information

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

### FP-2



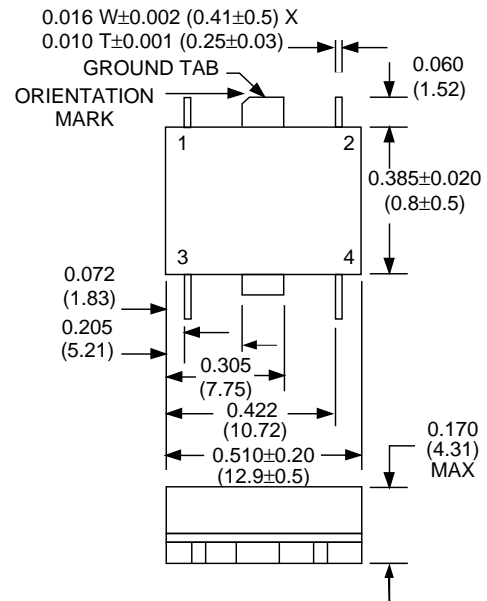
Dimensions in ( ) are in mm.

Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)

.xx = ±0.02 (.x = ±0.5)

WEIGHT (APPROX.): 0.09 OUNCES 2.5 GRAMS

### SF-1



Dimensions in ( ) are in mm.

Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)

.xx = ±0.02 (.x = ±0.5)

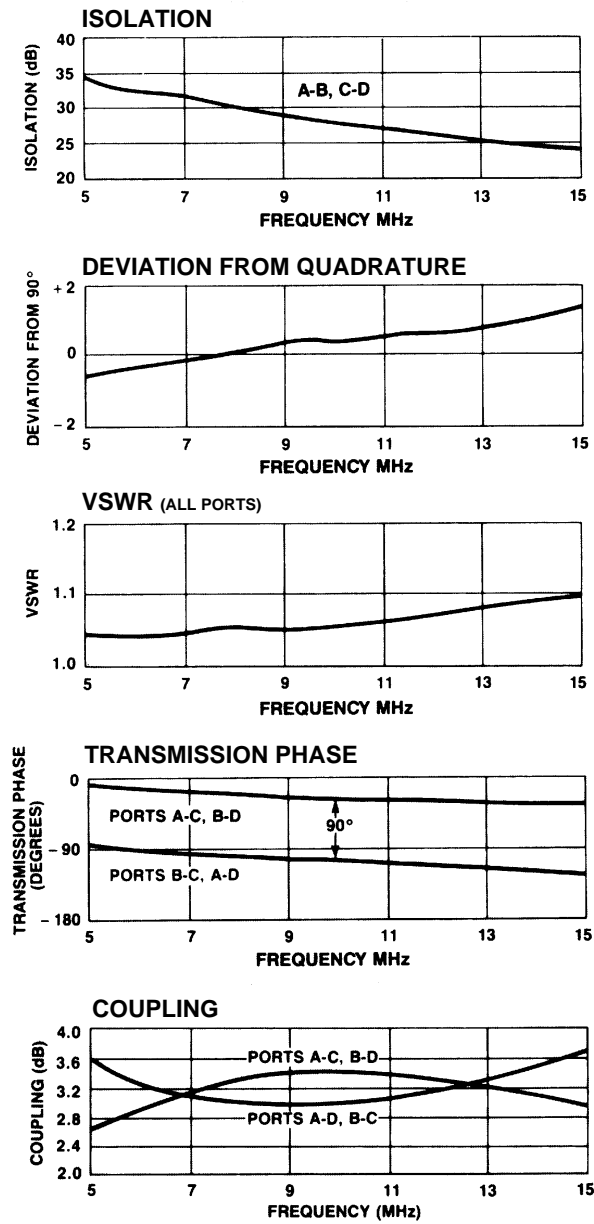
WEIGHT (APPROX.): 0.07 OUNCES 2 GRAMS

Specifications Subject to Change Without Notice.

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Typical Performance



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