

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

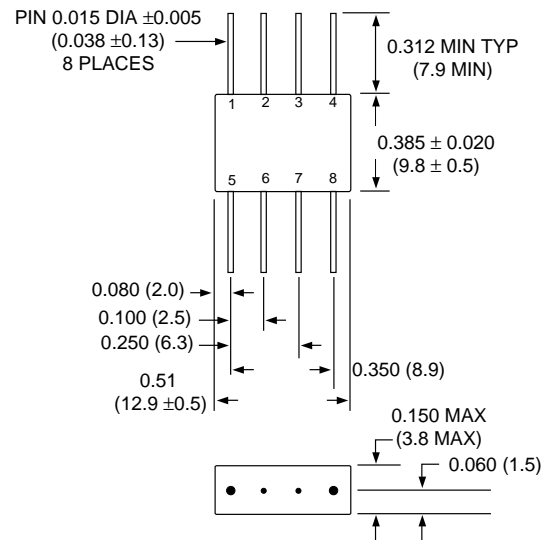
FP-2					SF-1						
IN	OUT	1	4	8	5	IN	OUT	1	2	4	3
1	ISO.	0°	-90°	ISO.	1	ISO.	0°	-90°	ISO.	1	ISO.
4	ISO.	90°	0°	ISO.	2	ISO.	90°	0°	ISO.	2	ISO.
8	0°	-90°	ISO.	ISO.	4	0°	-90°	ISO.	ISO.	4	ISO.
5	-90°	0°	ISO.	ISO.	3	-90°	0°	ISO.	ISO.	3	ISO.

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

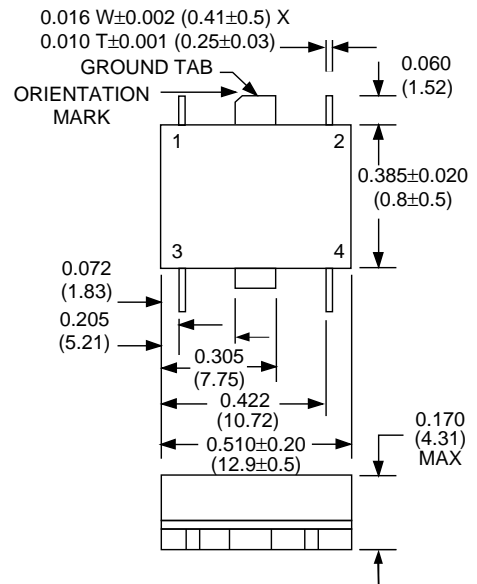


Dimensions in () are in mm.

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.

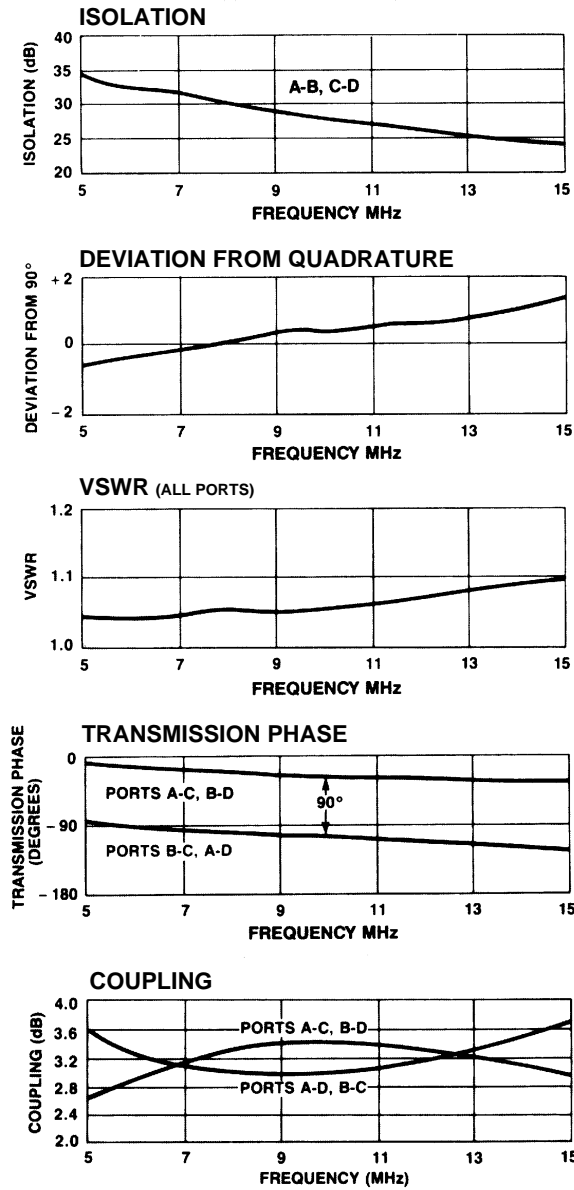
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Typical Performance



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