

# Quadrature Hybrid 175 - 350 MHz

## JH-136/JHS-136

V2.00

### Features

- Fully Hermetic Package
- Octave Bandwidth
- Low VSWR - 1.2:1 Typical

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

<b>Frequency Range</b>	175-350 MHz
<b>Insertion Loss (Less coupling)</b>	0.5 dB Max**
<b>Isolation</b>	20 dB Min
<b>Amplitude Balance</b>	0.75 dB Max
<b>VSWR</b>	1.3:1 Max
<b>Deviation from Quadrature</b>	4° Max

### Operating Characteristics

<b>Impedance</b>	50 Ohms Nominal
<b>Input Power</b>	4 Watts Max @ 25°C; Derated to 1 Watt @ 85°C
<b>Environmental</b>	MIL-STD-202 screening available.
<b>Pin Configuration</b>	A; P1, B; P2, C; P4, D; P3 All other pins are ground

\*All specifications apply with 50 ohm source and load impedance.  
\*\*Average of coupled outputs less 3 dB.  
This product contains elements protected by United States Patent Number 3,484,724.

### Phasing Diagram

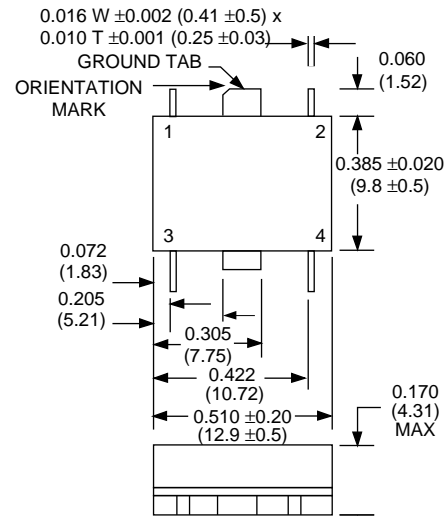
OUT \ IN	A	B	C	D
A	X	ISO	0°	-90°
B	ISO	X	-90°	0°
C	0°	-90°	X	ISO
D	-90°	0°	ISO	X

### Ordering Information

Model	PIN	SF-1	Package
JHS-136	PIN	SF-1	Surface Mount
JH-136	PIN	FP-2	Flat Pack

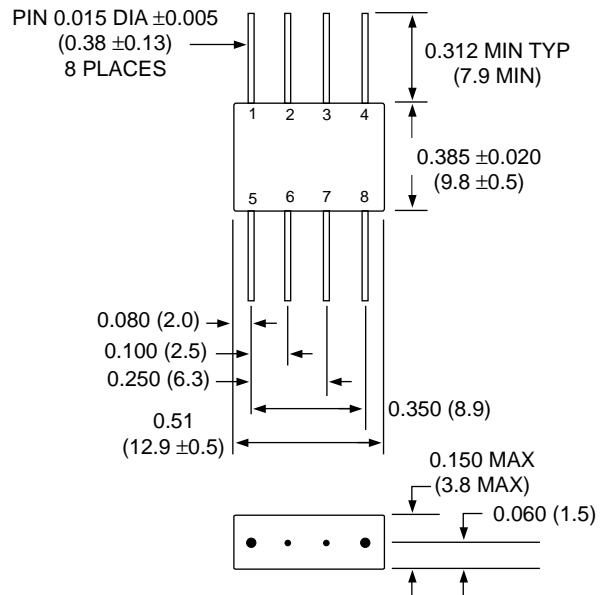
Specifications Subject to Change Without Notice.

### SF-1



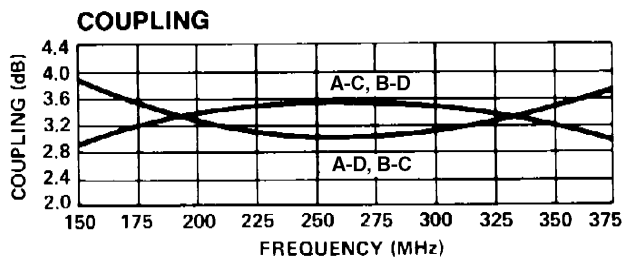
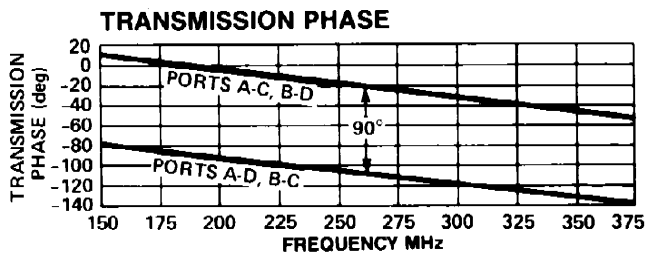
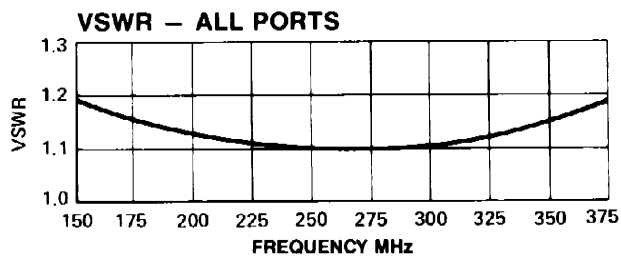
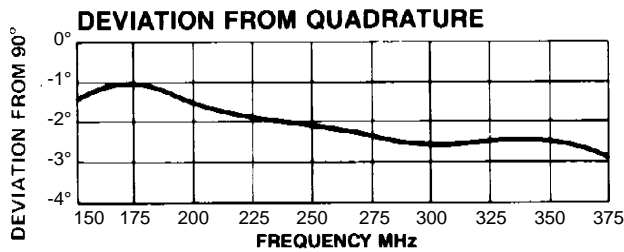
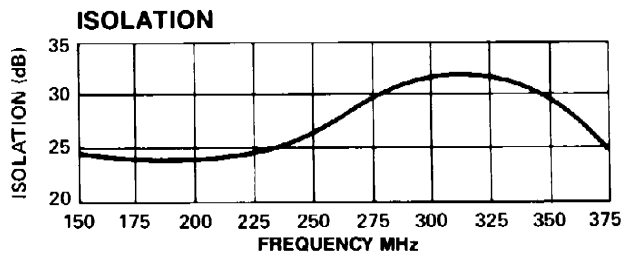
Dimensions in ( ) are in mm.  
Unless Otherwise Noted: .xxx = ± 0.010 (.xx = ± 0.25)  
.xx = ± 0.02 (.x = ± 0.5)  
WEIGHT (APPROX.): 0.07 OUNCES 2 GRAMS

### 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

Typical Performance



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