

# Surface Mount Quadrature Hybrid

## 200 - 400 MHz

JHS-142

V2.00

### Features

- Fully Hermetic
- Octave Bandwidth
- Low VSWR: 1.1:1 Typ.
- Impedance: 50 Ohms Nom.
- Input Power: 5 W. Max. @ 25°C.  
Derated to 1 W. @ 85°C
- Typical Phase Linearity: 3° from straight line
- MIL-STD-202 Screening Available

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

Frequency Range	200 - 400 MHz
Insertion Loss (Less coupling)	0.5 dB Max.**
Isolation	18 dB Min.
Amplitude Balance	1.0 dB Max.
VSWR	1.3:1 Max.
Deviation from Quadrature	4° Max.

### Pin Configuration

A; P1, B; P2, C; P4, D; P3

Case and 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

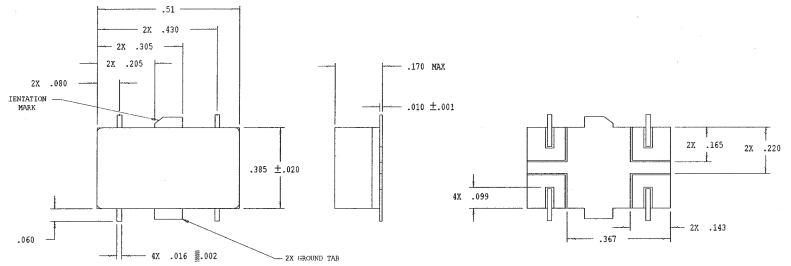
IN \ OUT	A	B	C	D
A	X	ISO.	-90°	0°
B	ISO.	X	0°	-90°
C	-90°	0°	X	ISO.
D	0°	-90°	ISO.	X

### Ordering Information

Part No.  
JHS-142 PIN

Package  
Surface Mount

### SF-1



Dimensions ( ) are in mm.

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

.xx = ±0.02 (.x = ±0.05)

WEIGHT (APPROX.) 0.07 OUNCES 2 GRAMS

### Typical Performance

