

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

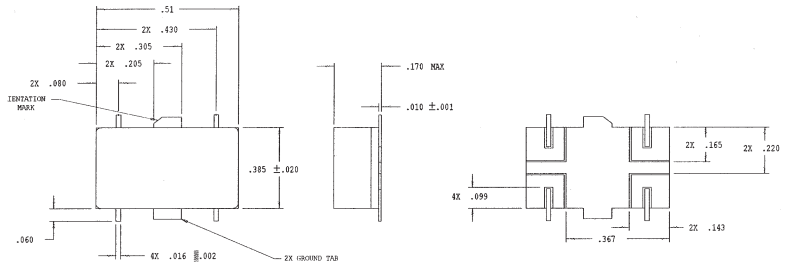
| | | | | | |
|----|-----|------|------|------|---|
| | OUT | A | B | C | D |
| IN | | | | | |
| A | | ISO. | -90° | 0° | |
| B | | ISO. | 0° | -90° | |
| C | | -90° | 0° | ISO. | |
| D | | 0° | -90° | ISO. | |

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

