

Quadrature Hybrid 250 - 500 MHz

JH-/JHS-139

V2.00

Features

- Octave Bandwidth
- Low VSWR – 1.1:1 Typical
- High Isolation – 30 dB Typical

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

Frequency Range	250-500 MHz
Insertion Loss (Less coupling)	0.5 dB Max**
Isolation	15 dB Min
Amplitude Balance	1.0 dB Max
VSWR	1.5:1 Max
Deviation from Quadrature	4° Max

Operating Characteristics

Impedance	50 Ohms Nominal
Input Power	4 Watts Max @ 25°C; Derated to 1 Watt @ 85°C

MIL-STD-202 screening available.

Pin Configuration

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

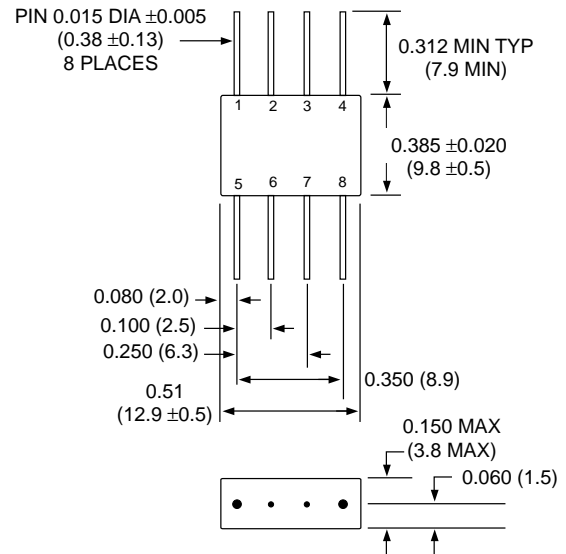
Phasing Diagram

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

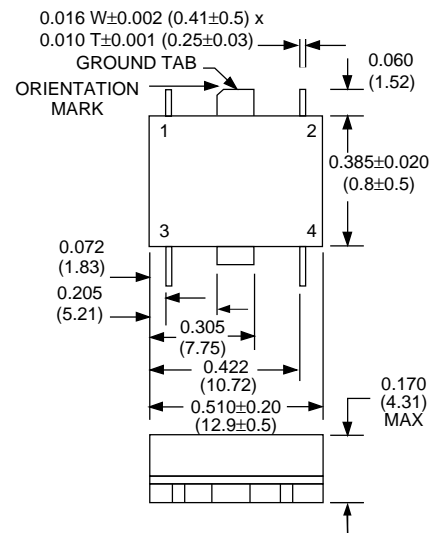
Model No.	Package
JH-139 PIN	Flatpack
JHS-139 PIN	Surface Mount

FP-2



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
.xx = ±0.02 (.xx = ±0.5)
WEIGHT (APPROX.): 0.09 OUNCES 2.5 GRAMS

SF-1



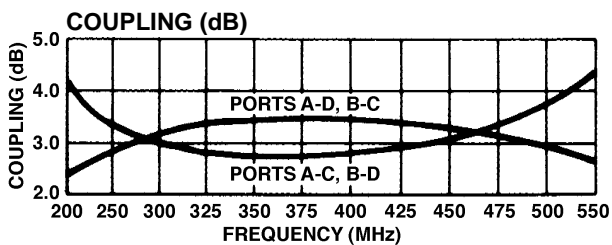
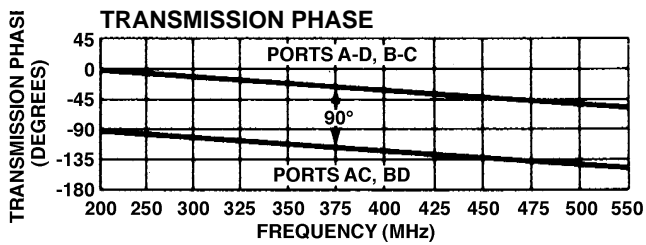
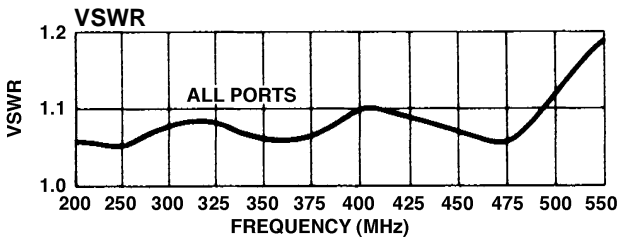
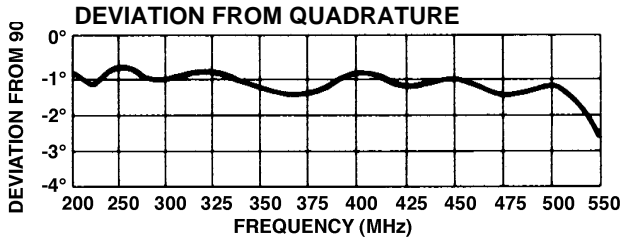
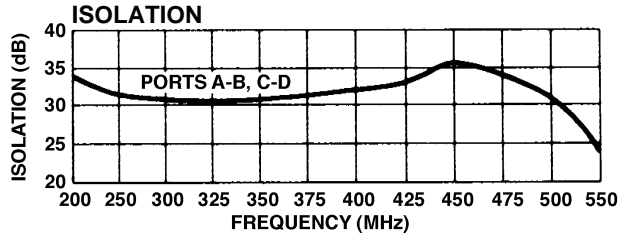
Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
WEIGHT (APPROX.): 0.07 OUNCES 2 GRAMS

Specifications Subject to Change Without Notice.

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Typical Performance



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