

Surface Mount Quadrature Hybrid

20 - 40 MHz

JHS-114

V2.00

Features

- Fully Hermetic Package
- Octave Bandwidth
- 3° Maximum Phase Deviation from 90°
- Low Loss - 0.5 dB Maximum

Guaranteed Specifications*

(From -55°C to +85°C)

Frequency Range	20-40 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

Operating Characteristics

Impedance	50 Ohms Nominal
Input Power	5 Watts Max @ 25°C Derated to 1 Watt @ 100°C

Typical Phase Linearity 3° from Straight Line

Environmental
MIL-STD-883 screening available.

Pin Configuration
JHS-114 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 3dB.

This product contains elements protected by United States Patent Number 3.484.724

Phasing Diagram

IN \ OUT	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

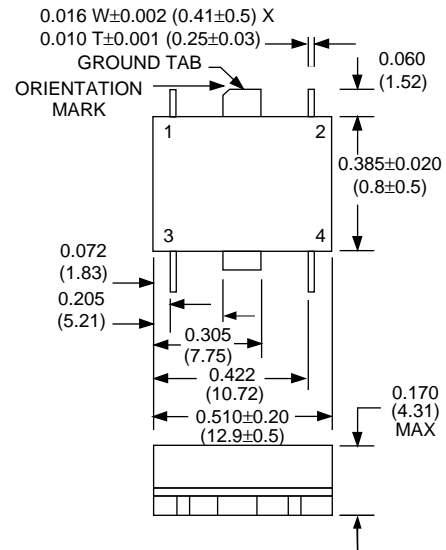
Model No.	Package
JHS-114 PIN	Surface Mount

Specifications Subject to Change Without Notice.

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SF-1

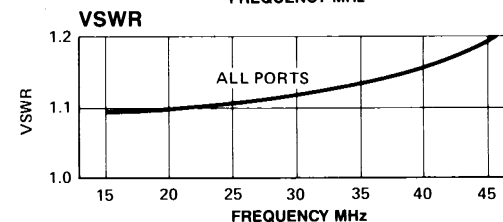
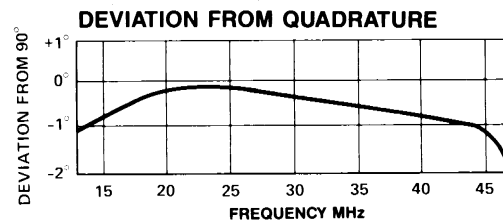
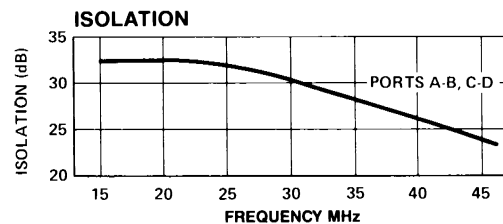


WEIGHT (APPROX.): 0.07 OUNCES 2 GRAMS

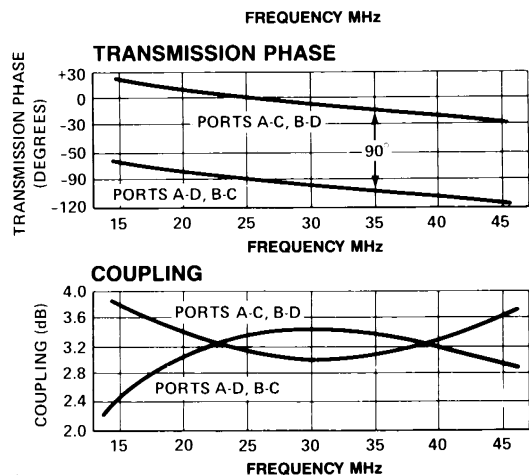
Dimensions in () are in mm.

Unless Otherwise Noted: .xxx = ± 0.010 (.xx = ± 0.25)
.xx = ± 0.02 (.x = ± 0.5)

Typical Performance



Typical Performance (cont'd)



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