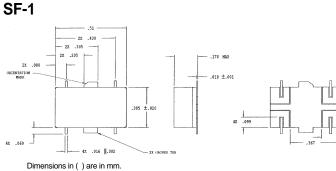


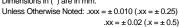
Quadrature Hybrid 20 - 40 MHz

JHS-114/JH-114/133

Features

- Octave Bandwidth
- 3° Maximum Phase Deviation from 90°
- Low loss: 0.5 dB Max.
- Impedance: 50 Ohms Nom.
- Input Power: 5 W. Max. @ 25°C Derated to 1 W. @ 100°C
- Typical Phase Linearity: 3° from Straight Line
- MIL-STD-202 Screening Available







(0.038 ±0.13)

8 PLACES

0.080 (2.0) -

0.100 (2.5) -

0.250 (6.3) -

0.51

(12.9 ±0.5)

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

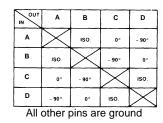
Frequency Range	20 - 40 MHz
Insertion Loss (Less coupling)	0.5 dB Max.**
Isolation	20 dB Min.
Amplitude Balance	0.75 dB Max.
VSWR	1.2:1 Max.
Deviation from Quadrature	3° Max.

*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.

Pin Configuration		
JHS-114	A; P1, B; P4, C; P8, D; P5	
	All other pins are ground.	
JH-114	A; P1, B; P4, C; P8, D; P5	
	All other pins are ground.	
JH-133	A; P5, B; P2, C; P11, D; P8	TO-8-2
	All other pins are ground	->

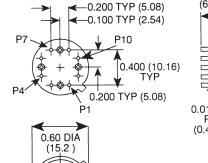
Phasing Diagram

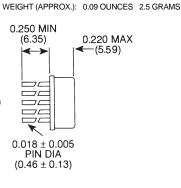


Ordering Information

www.macom.com

Model No.	
JH-114 PIN	
JH-133 PIN	
JHS-114 PIN	





Dimensions in () are in mm. Unless Otherwise Noted: .xxx = ± 0.010 (.xx = ± 0.25)

Bottom of Case is AC Ground Dimensions in () are in mm. Unless Otherwise Noted: $.xxx = \pm 0.010$ (.xx = ± 0.25) $.xx = \pm 0.02$ (.x = ± 0.5)

M/A-COM Division of AMP Incorporated ■ North America: Tel. (800) 366-2266, Fax (800) 618-8883 ■ Asia/Pacific: Tel. +85 2 2111 8088, Fax +85 2 2111 8087 ■ Europe: Tel. +44 (1344) 869 595, Fax +44 (1344) 300 020

Package

Flatpack

TO-8-2

SF-1

AMP and Connecting at a Higher Level are trademarks. Specifications subject to change without notice.



V2.00

2X .165 2X

.147

0.312 MIN TYP

(7.9 MIN)

 $\begin{array}{c} 0.385 \pm 0.020 \\ (9.8 \pm 0.5) \end{array}$

0.350 (8.9)

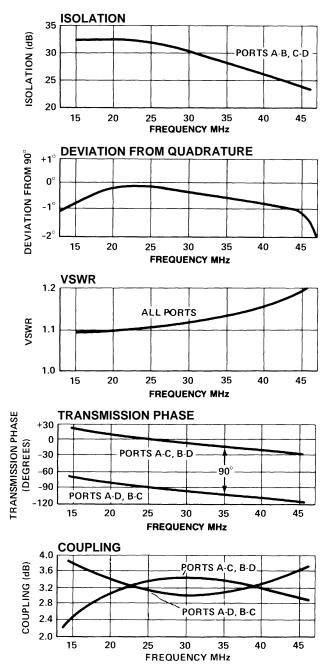
0.150 MAX (3.8 MAX) 0.060 (1.5)

 $.xx = \pm 0.02 (.x = \pm 0.5)$

JH-114/133

V2.00

Typical Performance



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