



Quadrature Hybrid 20 - 40 MHz

JH-114/133

V2.00

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

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

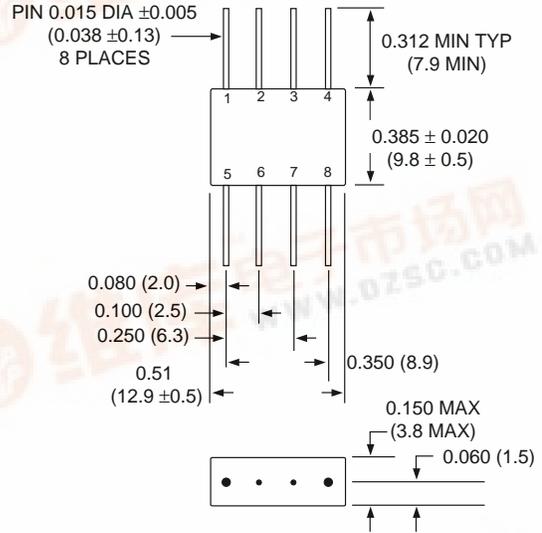
JH-114	A; P1, B; P4, C; P8, D; P5 All other pins are ground.
JH-133	A; P5, B; P2, C; P11, D; P8 All other pins are ground

Phasing Diagram

JH-114					JH-133						
IN	OUT	1	4	8	5	IN	OUT	5	2	11	8
1			ISO.	0°	-90°	5			ISO.	0°	-90°
4	ISO.			-90°	0°	2	ISO.			-90°	0°
8	0°	-90°			ISO.	11	0°	-90°			ISO.
5	-90°	0°	ISO.			8	-90°	0°	ISO.		

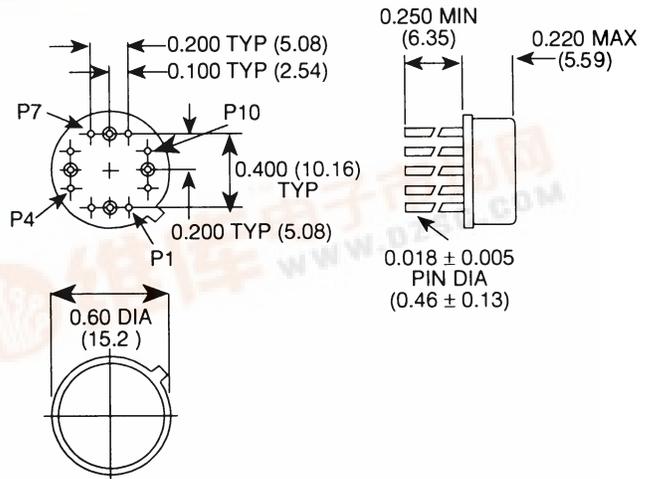
All other pins are ground

FP-2



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

TO-8-2



Bottom of Case is AC Ground

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

Ordering Information

Model No.	Package
JH-114 PIN	Flatpack
JH-133 PIN	TO-8-2

Specifications Subject to Change Without Notice.

Typical Performance

