

## Flatpack Hybrid Junction, 20 - 2000 MHz

HH-128-PIN

V3

### Features

- 1.5 dB Typical Midband Insertion Loss
- 30 dB Typical Midband Isolation
- 1.3:1 Typical Midband VSWR
- MIL-STD-202 Screening Available

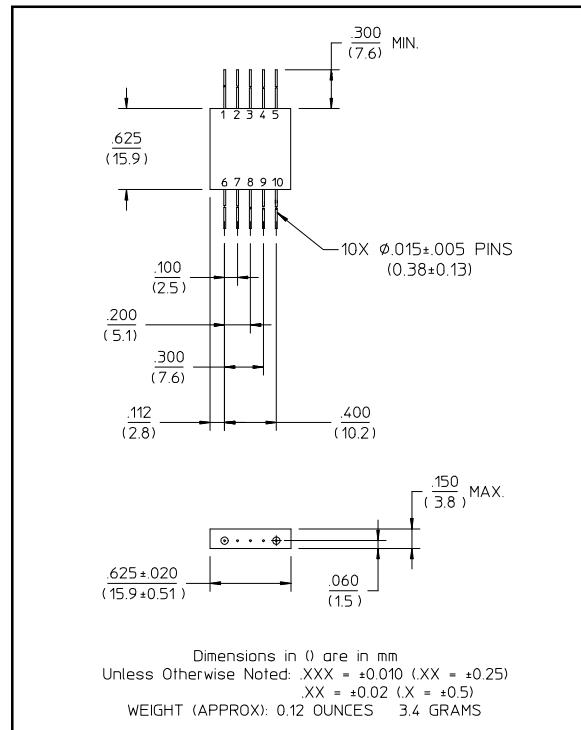
### Description

3 dB Hybrids are ideal for dividing a signal into two signals of equal amplitude and a constant 90° or 180° phase differential and for Quadrature combining or performing summation/differential combining.

### Pin Configuration

Pin No.	Function	Pin No.	Function
1	C	6	A
2	GND	7	GND
3	GND	8	GND
4	GND	9	GND
5	D	10	B

### FP-3



### Electrical Specifications<sup>1</sup>: T<sub>A</sub> = -55°C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	Less Coupling	20 - 2000 MHz 20 - 1000 MHz	dB dB	— —	— —	3.0 2.5
Isolation	—	20 - 2000 MHz 20 - 1000 MHz	dB dB	15 20	— —	— —
Amplitude Balance	—	20 - 2000 MHz 20 - 1000 MHz	dB dB	— —	— —	1.2 0.5
VSWR	—	20 - 2000 MHz	Ratio	—	—	2.0:1
Phase Balance	—	20 - 2000 MHz 20 - 1000 MHz 20 - 500 MHz	° ° °	— — —	— — —	20 15 10
Impedance	—	—	Ohms	—	50	—
Input Power	—	—	Watts	—	—	0.5

1. All specifications apply with 50 ohm source and load impedance.

This product contains elements protected by United States Patent number 3,508,171

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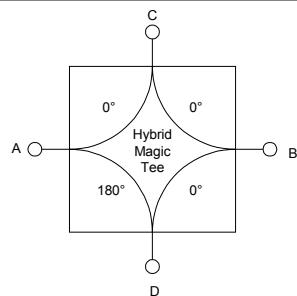
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### Functional Diagram

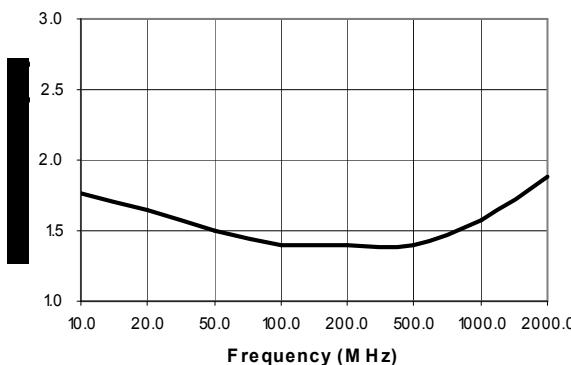


### Ordering Information

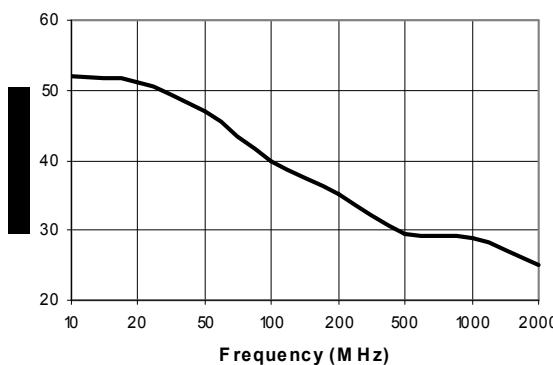
Part Number	Package
HH-128 PIN	FP-3

### Typical Performance Curves

*Insertion Loss*



*Isolation*



*VSWR*

