

## 180º Hybrid Junction, 2 - 200 MHz

Rev. V3

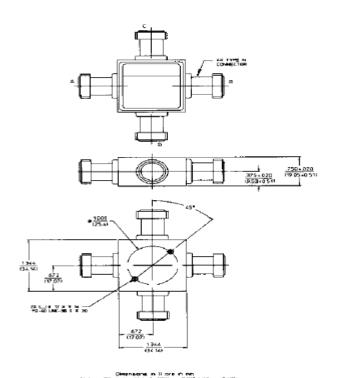
#### **Features**

- 0° 180° Hybrid with Symmetrical Time Delay Between Ports
- · Available in Flatpack and Connectorized Packages
- MIL-STD-202 Screening Available

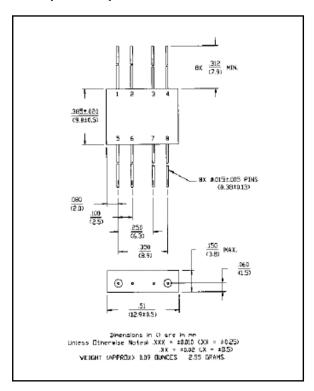
#### **Description**

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.

#### C-8-107 (HH-107)



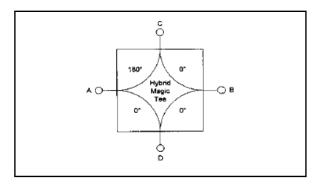
#### FP-2 (HH-106)



#### Pin Configuration (HH-106)

Pin No.	Function	Pin No.	Function
1	Α	5	В
2	GND	6	GND
3	GND	7	GND
4	С	8	D

#### **Functional Diagram**



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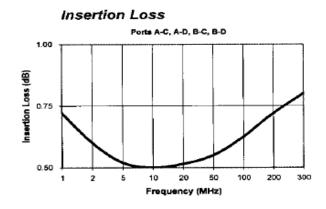
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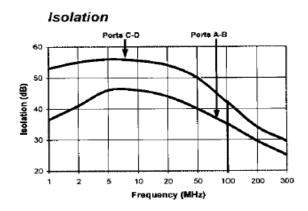
## Electrical Specifications<sup>1</sup>: $T_A = -55$ °C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	2 - 200 MHz	dB	_	_	1.0
Isolation	A - B C - D	2 - 200 MHz 5 - 50 MHz 2 - 200 MHz 5 - 50 MHz	dB dB dB dB	25 30 30 35	_	
Amplitude Balance	_	2 - 200 MHz	dB	_	_	0.3
VSWR	_	2 - 200 MHz 5 - 50 MHz	Ratio Ratio	_	_	1.5:1 1.3:1
Phase Balance	_	2 - 200 MHz	0	_	_	3
Impedance	_	2 - 200 MHz	Ohms	_	50	_
Input Power	_	2 - 200 MHz	Watts	_	_	1

<sup>1.</sup> All specifications apply with 50 ohm source and load impedance.

#### **Typical Performance Curves**





# **VSWR** All Ports 2.00 1.50 100 Frequency (GHz)

### **Ordering Information**

Part Number	Package		
HH-106 PIN	FP-2		
HH-107 BNC	C-8-107		
HH-107 SMA	C-8-107		

- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
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## MACOM:

FD93C FM-104-PIN HH-105-PIN