

180° Hybrid Junction, 2 - 200 MHz

HH-106/107
V3

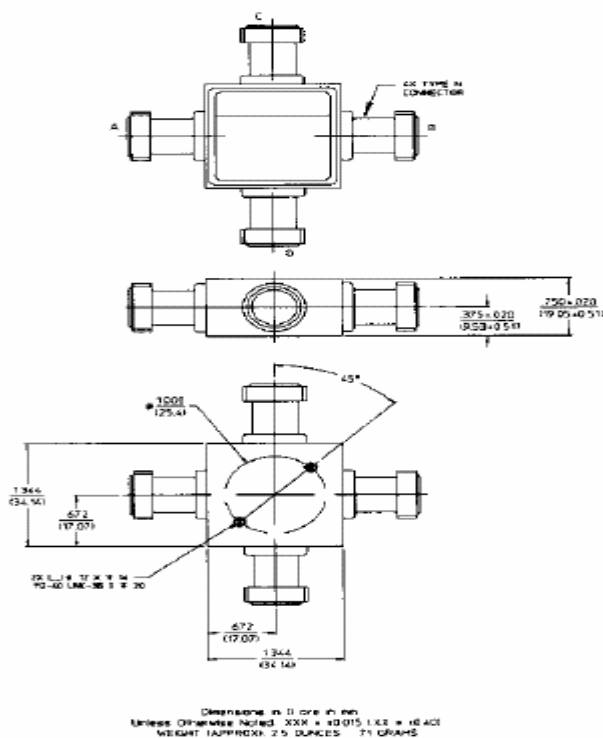
Features

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

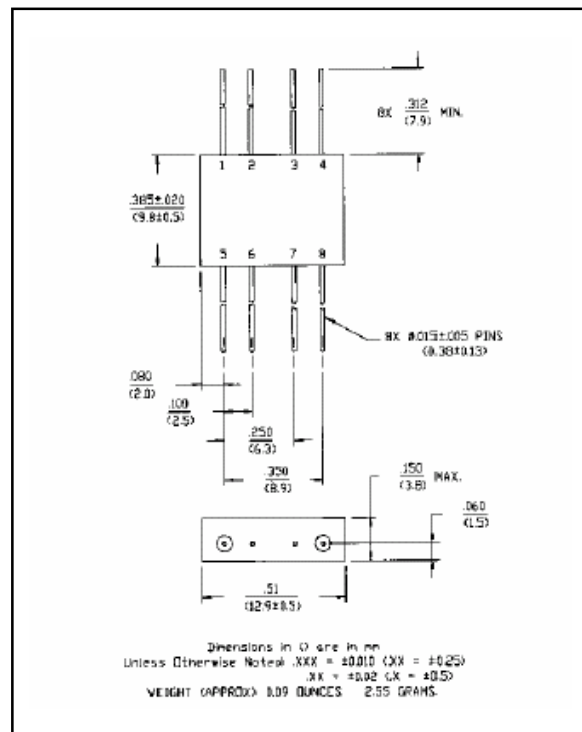
Description

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)



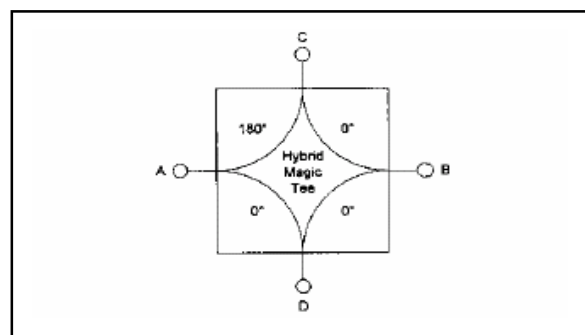
FP-2 (HH-106)



Pin Configuration (HH-106)

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

Functional Diagram



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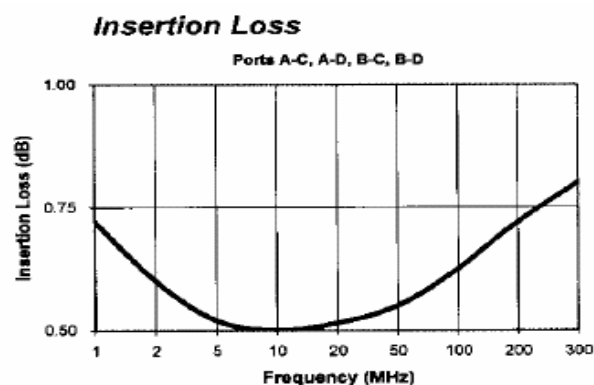
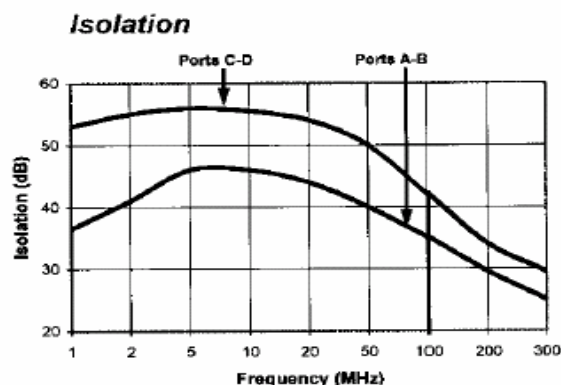
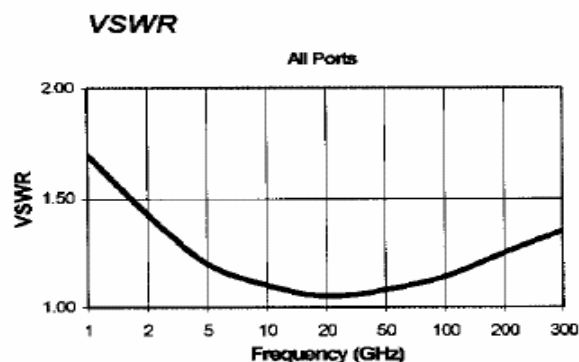
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Electrical Specifications¹: T_A = -55°C to +85°C

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

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

Typical Performance Curves



Ordering Information

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