HH- / HHS-109

Hybrid Junction, 5 - 200 MHz



Rev. V3

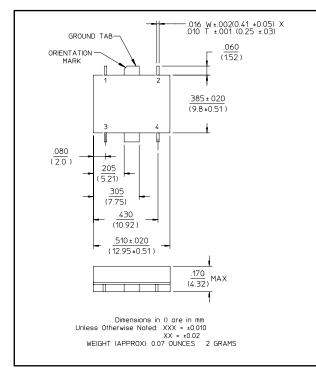
Features

- 0° 180° Hybrid with High Isolation
- Usable from 500 KHz 500 MHz
- 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.

SF-1 (HHS-109)



Pin Configuration (HHS-109)

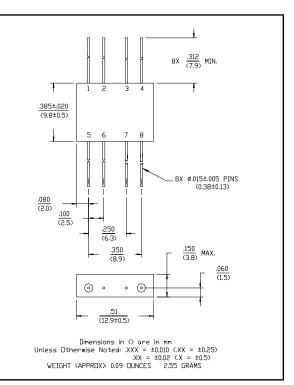
Pin No.	Function	Pin No. Function	
1	А	3	В
2	С	4	D

1

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PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

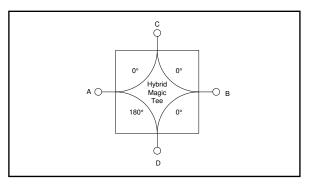
FP-2 (HH-109)



Pin Configuration (HH-109)

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

Functional Diagram



- North America Tel: 800.366.2266
 Europe Tel: +353.21.244.6400
 India Tel: +91.80.4155721
 China Tel: +86.21.2407.1588
- Visit www.macomtech.com for additional data sheets and product information.

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HH- / HHS-109



Hybrid Junction, 5 - 200 MHz

Rev. V3

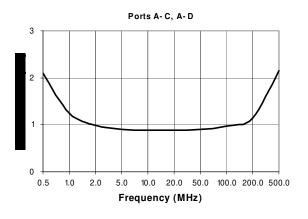
Electrical Specifications¹: T_A = -55°C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	5 - 200 MHz	dB	_		1.4
Isolation		5 - 100 MHz 100 - 200 MHz	dB dB	30 25		_
Amplitude Balance	_	5 - 200 MHz	dB			0.3
VSWR	_	5 - 100 MHz 100 - 200 MHz	Ratio Ratio	_		1.5:1 1.7:1
Phase Balance	_	5 - 100 MHz 100 - 200 MHz	0 0	_		4 8
Impedance	_	_	Ohms	_	50	_
Input Power	—		Watts		—	0.5

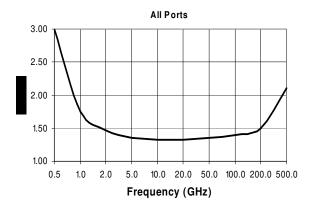
1. All specifications apply with 50 ohm source and load impedance.

Typical Performance Curves

Insertion Loss



VSWR

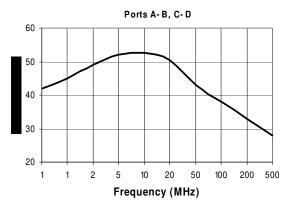


2

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Isolation



Ordering Information

Part Number	Package	
HH-109 PIN	FP-2	
HHS-109 PIN	SF-1	

 North America
 Tel: 800.366.2266
 Europe
 Tel: +353.21.244.6400

 India
 Tel: +91.80.4155721
 China
 Tel: +86.21.2407.1588

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