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

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ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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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Electrical Specifications¹: $T_A = -55^{\circ}C$ to $+85^{\circ}C$

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



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Isolation



Ordering Information

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

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