

Hybrid Junction, 5 - 200 MHz

Rev. V3

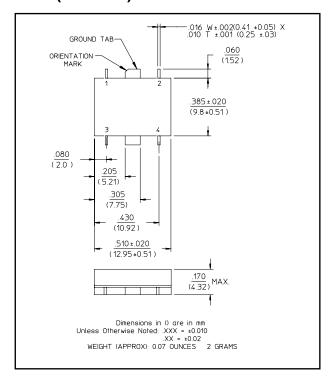
Features

- 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 phase differential and for Quadrature or performing summation/differential combining combining.

SF-1 (HHS-109)

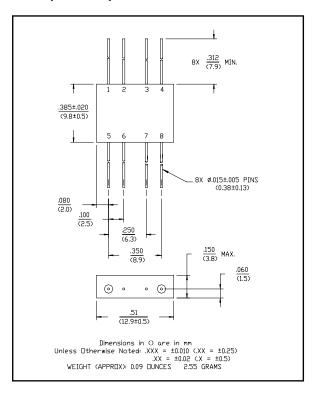


Pin Configuration (HHS-109)

Commitment to produce in volume is not guaranteed.

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

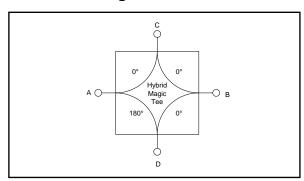
FP-2 (HH-109)



Pin Configuration (HH-109)

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

Functional Diagram



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

• India Tel: +91.80.4155721

• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

• China Tel: +86.21.2407.1588 Visit www.macomtech.com for additional data sheets and product information.



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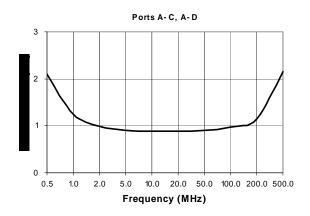
Electrical Specifications¹: $T_A = -55$ °C to +85°C

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	_	_	4 8
Impedance	_	_	Ohms	_	50	_
Input Power	_	_	Watts	_	_	0.5

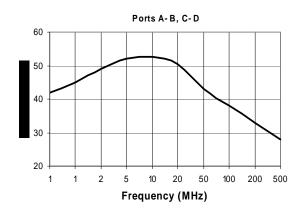
^{1.} All specifications apply with 50 ohm source and load impedance.

Typical Performance Curves

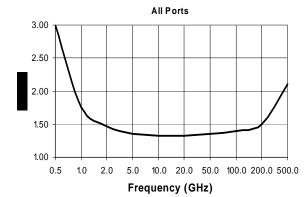
Insertion Loss



Isolation



VSWR



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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MACOM: HHS-109-PIN