

Hybrid Junction, 5 - 200 MHz

Rev. V3

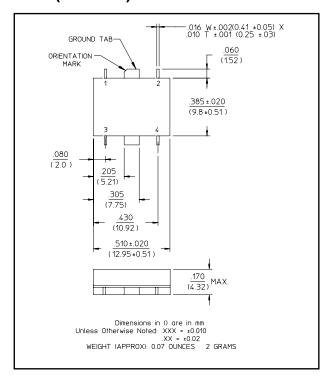
Features

- 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)

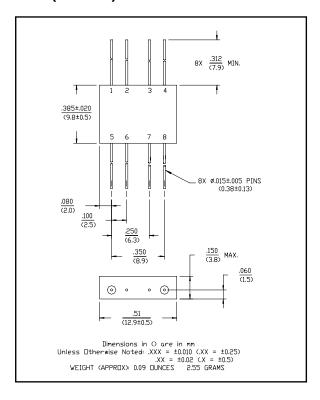


Pin Configuration (HHS-109)

Commitment to produce in volume is not du

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

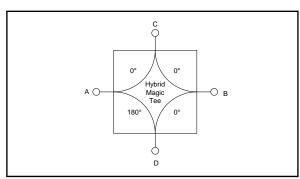
FP-2 (HH-109)



Pin Configuration (HH-109)

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

Functional Diagram



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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 incloging the region of a gliable.

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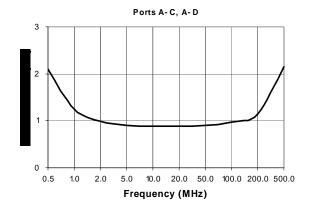
Electrical Specifications¹: $T_A = -55$ °C to +85°C

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

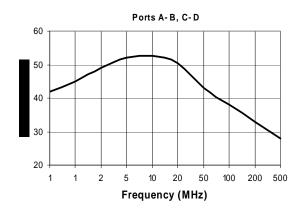
^{1.} All specifications apply with 50 ohm source and load impedance.

Typical Performance Curves

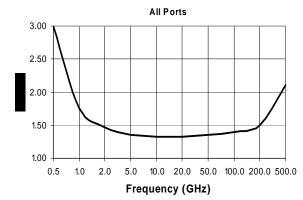
Insertion Loss



Isolation



VSWR



Ordering Information

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

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