HH- / HHS-110 / HH-127



Hybrid Junction, 10 - 500 MHz

Rev. V3

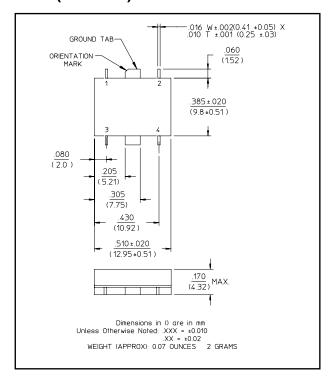
Features

- · Broad Frequency Range
- Fully Hermetic Package (HHS-110)
- High Isolation: Typically 30 dB
- Impedance: 50 Ohms Nominal
- Input Power: 1 Watt Maximum
- MIL-STD-202 Screening Available

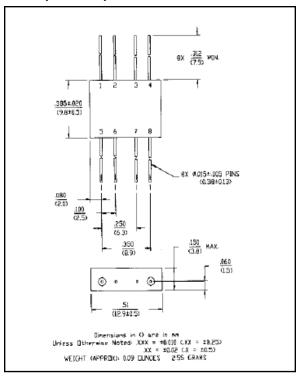
Description

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.

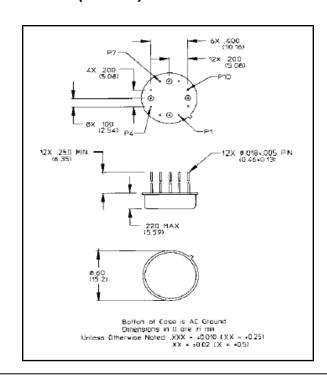
SF-1 (HHS-110)



FP-2 (HH-110)



TO-8-2 (HH-127)



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.

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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 on rest tagar may be available.

Commitment to produce in volume is not guit

- 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.

HH- / HHS-110 / HH-127



Hybrid Junction, 10 - 500 MHz

Rev. V3

Pin Configuration (HH-110)

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

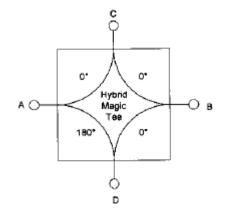
Pin Configuration (HHS-110)

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

Pin Configuration (HH-127)

Pin No.	Function	Pin No.	Function
1	GND	7	GND
2	С	8	В
3	GND	9	GND
4	GND	10	GND
5	А	11	D
6	GND	12	GND

Functional Diagram



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typical. Mechanical outline has been fixed. Engineering samples Commitment to produce in volume is not guardinged.

HH- / HHS-110 / HH-127



Hybrid Junction, 10 - 500 MHz

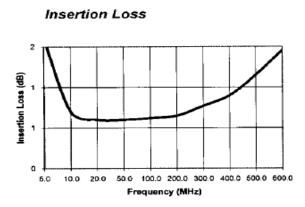
Rev. V3

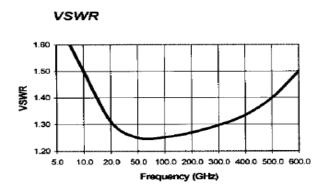
Electrical Specifications¹: $T_A = -55$ °C to +85°C

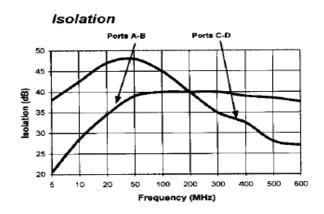
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	10 - 500 MHz 25 - 200 MHz	dB dB	_	_	1.4 1.0
Isolation		10 - 500 MHz 25 - 200 MHz	dB dB	20 30	_	_
Amplitude Balance	_	10 - 500 MHz 25 - 200 MHz	dB dB	_	_	0.6 0.4
VSWR	_	10 - 500 MHz 25 - 200 MHz	Ratio Ratio	_	_	2.0:1 1.6:1
Phase Balance	_	10 - 500 MHz 25 - 200 MHz	0	_	_	7 5

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

Typical Performance Curves







Ordering Information

Part Number	Package
HH-110 PIN	FP-2
HHS-110	SF-1
HH-127 PIN	TO-8-2