

Hybrid Junction, 10 - 500 MHz

HH-/HHS-110/HH-127 V3

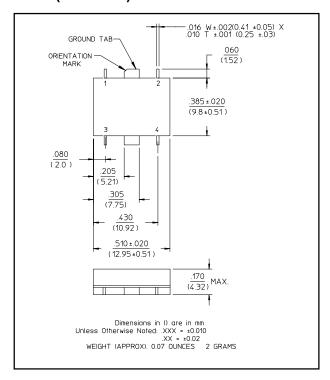
Features

- 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

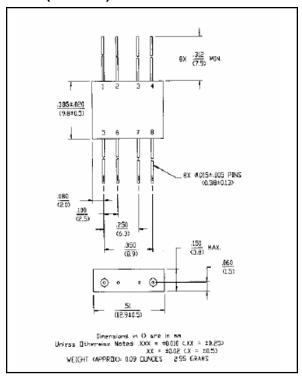
Description

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.

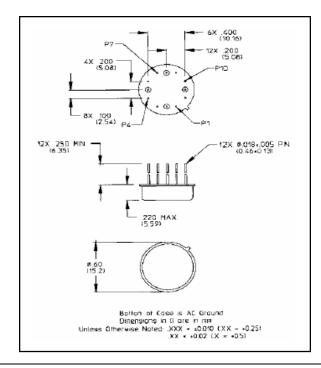
SF-1 (HHS-110)



FP-2 (HH-110)



TO-8-2 (HH-127)



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HH-/HHS-110/HH-127

Pin Configuration (HH-110)

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

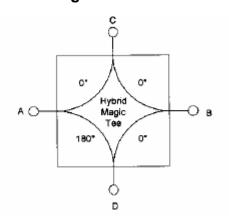
Pin Configuration (HHS-110)

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

Pin Configuration (HH-127)

Function	Pin No.	Function
GND	7	GND
С	8	В
GND	9	GND
GND	10	GND
Α	11	D
GND	12	GND
	GND C GND GND	GND 7 C 8 GND 9 GND 10 A 11

Functional Diagram



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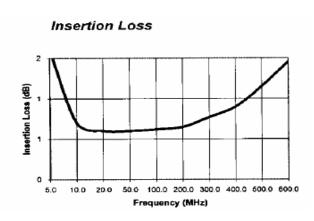
HH-/HHS-110/HH-127

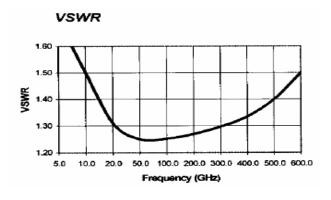
Electrical Specifications¹: $T_A = -55$ °C to +85°C

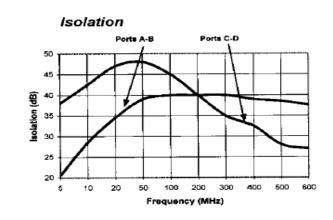
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	10 - 500 MHz 25 - 200 MHz	dB dB	_		1.4 1.0
Isolation		10 - 500 MHz 25 - 200 MHz	dB dB	20 30		_
Amplitude Balance	_	10 - 500 MHz 25 - 200 MHz	dB dB	_		0.6 0.4
VSWR	_	10 - 500 MHz 25 - 200 MHz	Ratio Ratio	_	_	2.0:1 1.6:1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

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