HH- / HHS-110 / HH-127

Hybrid Junction, 10 - 500 MHz

Rev. V3

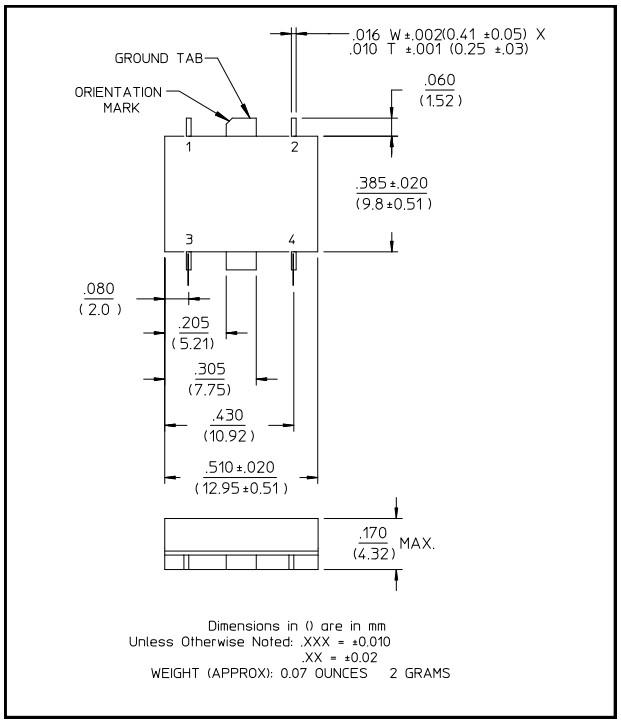
Features

- 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

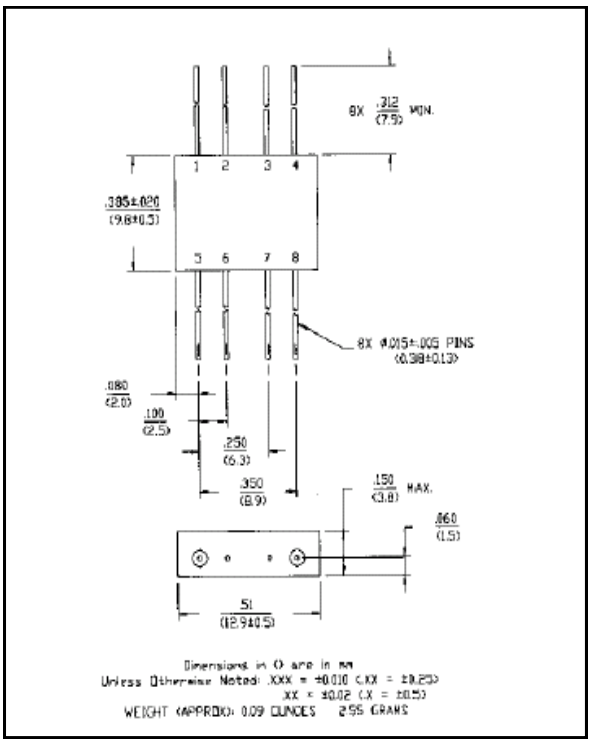
Description

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.

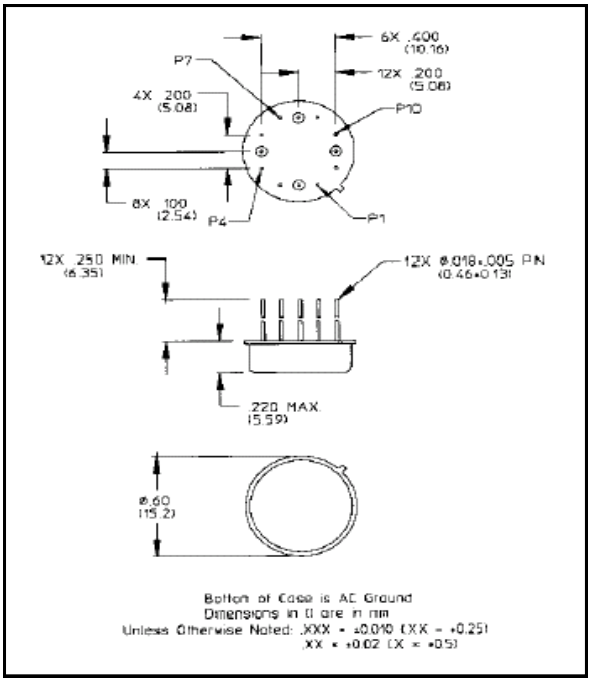
SF-1 (HHS-110)



FP-2 (HH-110)



TO-8-2 (HH-127)



Hybrid Junction, 10 - 500 MHz

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Pin Configuration (HH-110)

Pin No.	Function	Pin No.	Function
1	A	5	B
2	GND	6	GND
3	GND	7	GND
4	C	8	D

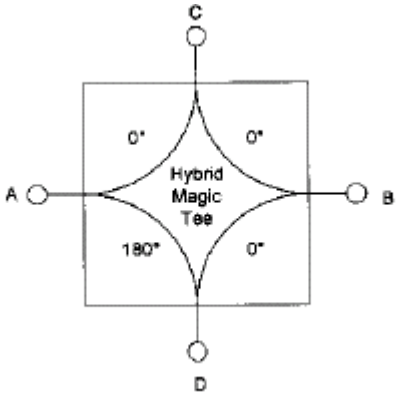
Pin Configuration (HHS-110)

Pin No.	Function	Pin No.	Function
1	A	3	B
2	C	4	D

Pin Configuration (HH-127)

Pin No.	Function	Pin No.	Function
1	GND	7	GND
2	C	8	B
3	GND	9	GND
4	GND	10	GND
5	A	11	D
6	GND	12	GND

Functional Diagram

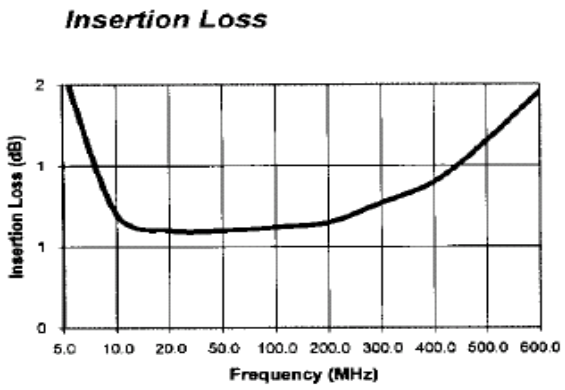


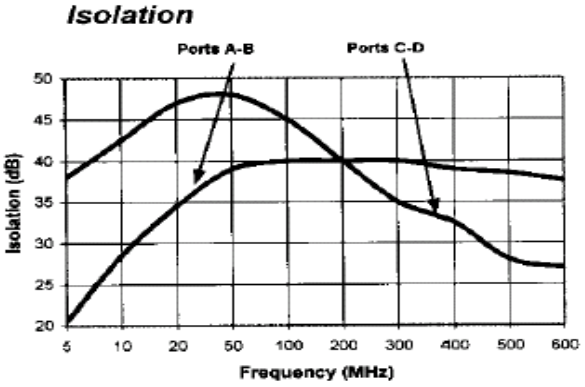
Electrical Specifications[1]: T_A = -55°C to +85°C

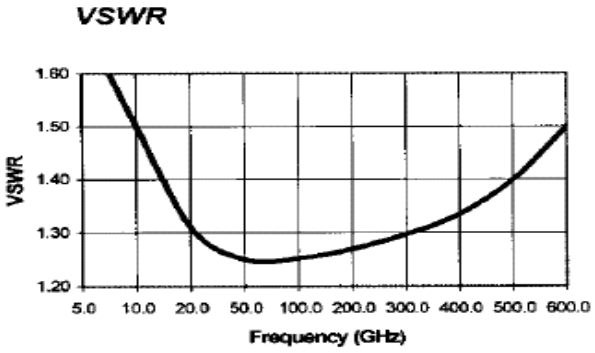
Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	Less Coupling	10 - 500 MHz 25 - 200 MHz	dB dB	— —	— —	1.4 1.0
Isolation		10 - 500 MHz 25 - 200 MHz	dB dB	20 30	— —	— —
Amplitude Balance	—	10 - 500 MHz 25 - 200 MHz	dB dB	— —	— —	0.6 0.4
VSWR	—	10 - 500 MHz 25 - 200 MHz	Ratio Ratio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