



90° HYBRID

MODEL HS80-31

90° QUADRATURE HYBRID

Guaranteed Specifications

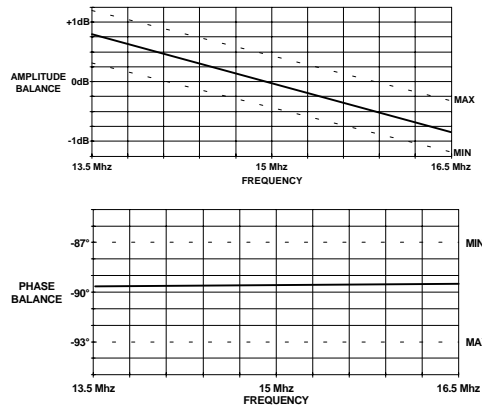
Parameter	Range	Limits
Frequency	15 MHz	Center
Bandwidth	13.5 MHz to 16.5 MHz	Min
Insertion Loss	13.5 MHz to 16.5 MHz	0.5 dB Max
Isolation	13.5 MHz to 16.5 MHz	20 dB Min
Phase Balance	13.5 MHz to 16.5 MHz	$\pm 1^\circ$ Max
Amplitude Balance	13.5 MHz to 16.5 MHz	± 1.2 dB Max
Center Frequency	15 MHz	$\pm .5$ dB Max

Note: All specifications apply in a 50 Ohm system driving Pin 1 with outputs at Pins 3 and 5, and with Pin 7 terminated in 50 Ohms. 75 Ohm models are available.

Maximum Ratings

Input Power	1 Watt
Temperature Range	-54°C to +85°C

Typical Performance



Reliability

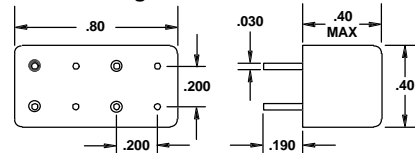
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

Test	Method	Condition
Temperature Cycle	107G	A
Thermal Cycle	107G	AA
Vibration	204D	A
Solderability	208F	
Terminal Strength	211A	A
Terminal Fatigue	211A	C
Mechanical Shock	213B	C

Features

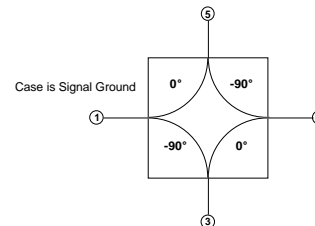
- ◆ Excellent Phase Balance
- ◆ Standard Relay Header
- ◆ Low Cost

Outline Drawing

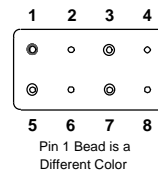


Pin 1 Location Marked on Top Weight (Approx.) 5.2 grams

Block Diagram



Connections



INPUT	1
TERMINATE	7
0 DEGREES	5
-90 DEGREES	3
GROUND	2,4,6,8