



## 90° QUADRATURE HYBRID

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## MODEL HS80-27

### Guaranteed Specifications

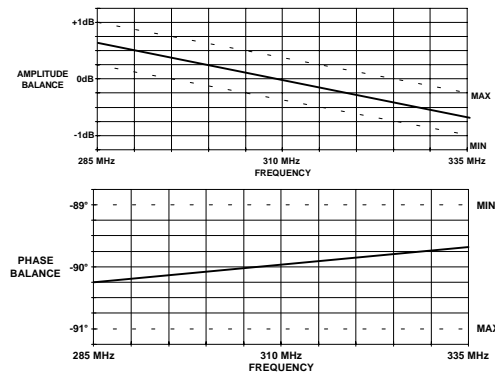
Parameter	Range	Limits
Frequency	310 MHz	Center
Bandwidth	285 MHz to 335 MHz	Min
Insertion Loss	285 MHz to 335 MHz	0.5 dB Max
Isolation	285 MHz to 335 MHz	20 dB Min
Phase Balance	285 MHz to 335 MHz	$\pm 1^\circ$ Max
Amplitude Balance	285 MHz to 335 MHz	$\pm 1$ dB Max
Center Frequency	310 MHz	$\pm 5$ 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

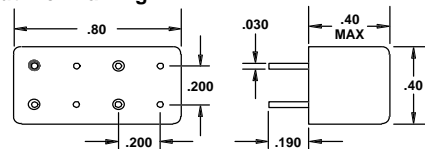
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

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

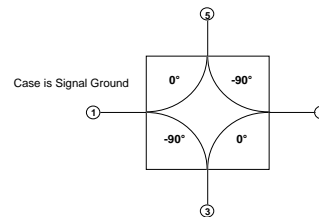
- ♦  $< 1^\circ$  Phase Unbalance
- ♦ Standard Relay Header
- ♦ Low Cost

### Outline Drawing

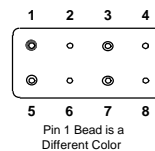


Pin 1 Location Marked on Top Weight (Approx.) 5.2 grams

### Block Diagram



### Connections



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

All characteristics of Tele-Tech products may be modified to meet customer requirements.