

# 19.5 dB Bi-Directional Coupler

## 0.5 - 400 MHz

### CH-/CHS-137

V2.00

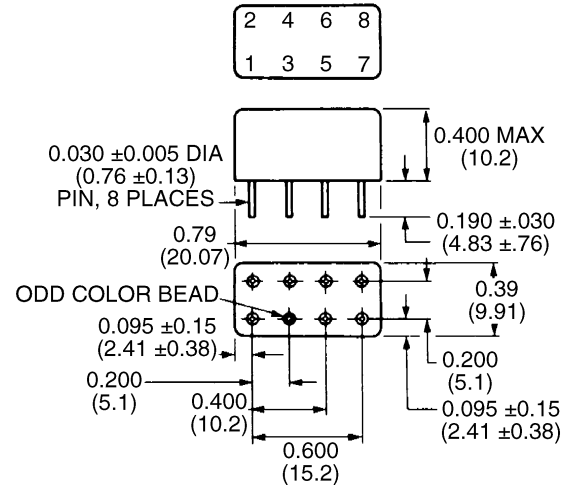
#### Features

- Low Cost
- Convenient Plug-In Mounting
- Fully Hermetic Package (CHS-137)

#### Guaranteed Specifications\* (From -55°C to +85°C)

<b>Frequency Range</b>	0.5-400 MHz	
<b>Coupling (Input to Output)</b>		
0.5-200 MHz	19.5 ±0.5 dB	
200-400 MHz	20 ±1.0 dB	
<b>VSWR (All Ports)</b>		
5-200 MHz	1.2:1 Max	
0.5-400 MHz	1.5:1 Max	
<b>Directivity (Both Directions)</b>		
0.5-50 MHz	30 dB Min	
50-200 MHz	20 dB Min	
200-400 MHz	15 dB Min	
<b>Main Line Loss**</b>	<b>CH-137</b>	<b>CHS-137</b>
0.5-50 MHz	0.5 dB Max	0.5 dB Max
50-200 MHz	0.4 dB Max	0.4 dB Max
200-400 MHz	0.6 dB Max	0.7 dB Max

#### RH-1



Dimensions in ( ) are in mm.  
Unless otherwise noted: .xxx = ±0.010 (.xx = ±0.25)  
WEIGHT (APPROX.): 0.23 OUNCES 6.5 GRAMS

#### Operating Characteristics

**Input Power** 3.0 Watts Max

#### Environmental

MIL-STD-202 screening option available.

\* All specifications apply with 50 ohm source and load impedance.

\*\* Includes theoretical power split.

#### Ordering Information

#### Model No.

CH-137 PIN

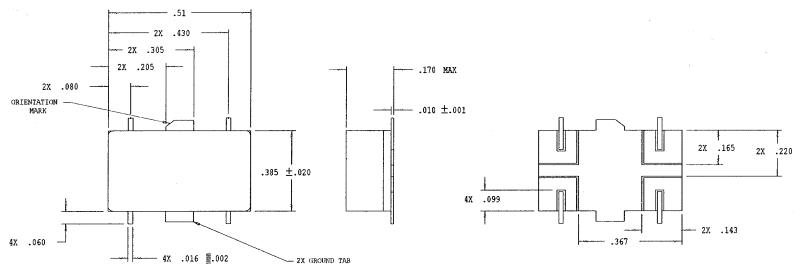
CHS-137 PIN

#### Package

Relay Header

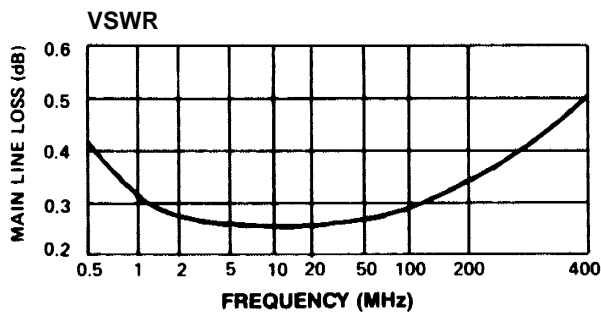
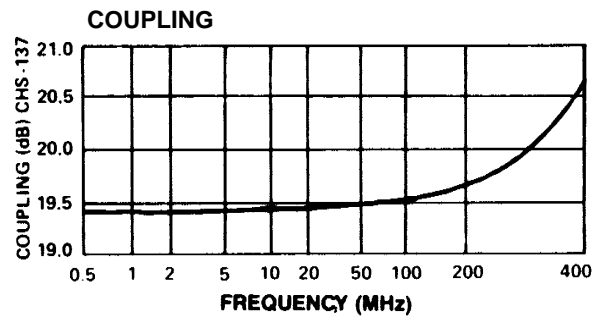
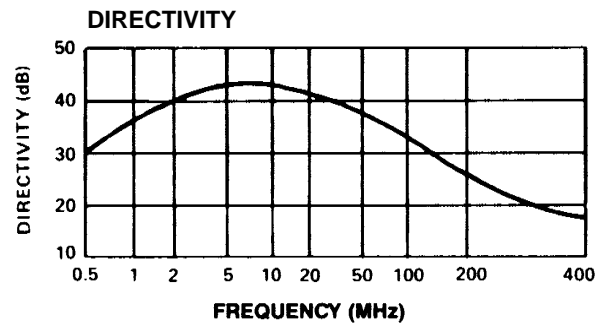
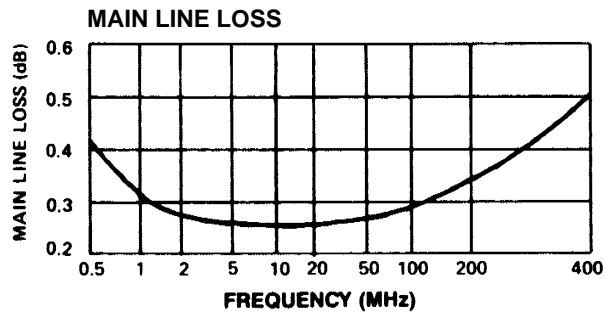
Surface Mount

#### SF-1

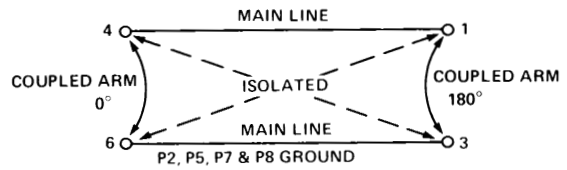


Dimensions in ( ) are in mm.  
Unless otherwise noted: .xxx = ±0.010 (.xx = ±0.25)  
WEIGHT (APPROX.): 0.07 OUNCES 2 GRAMS

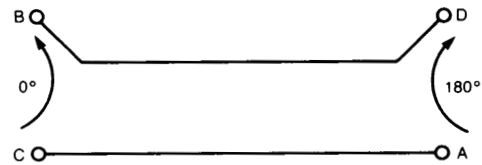
Typical Performance



Functional Diagram & Pin Configuration (CH-137)



Functional Diagram (CHS-137)



Pin Configuration

CHS-137

Pin Number	Description
1	C
2	B
3	A
4	D