

# 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)

**Frequency Range** 0.5-400 MHz

### Coupling

(Input to Output)

0.5-200 MHz 19.5 ±0.5 dB  
200-400 MHz 20 ±1.0 dB

### VSWR (All Ports)

5-200 MHz 1.2:1 Max  
0.5-400 MHz 1.5:1 Max

### Directivity

(Both Directions)

0.5-50 MHz 30 dB Min  
50-200 MHz 20 dB Min  
200-400 MHz 15 dB Min

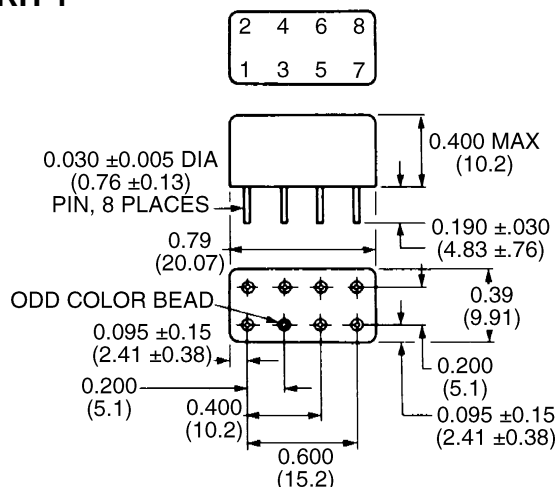
### Main Line Loss\*\*

#### CH-137

#### CHS-137

Frequency Range	CH-137	CHS-137
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

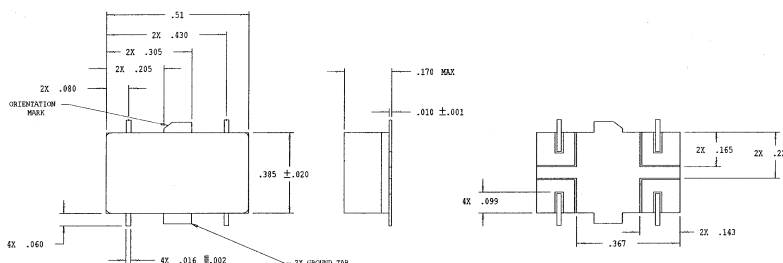
CHS-137 PIN

### Package

Relay Header

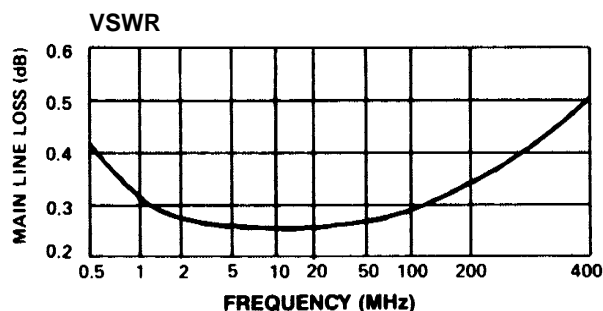
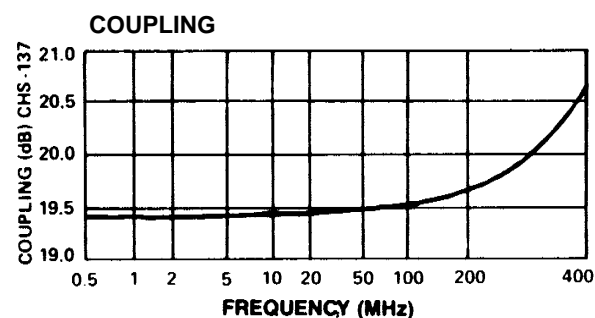
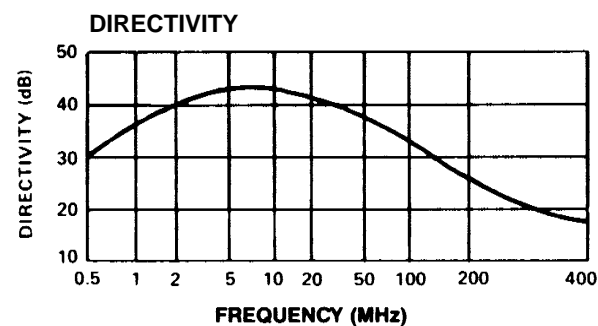
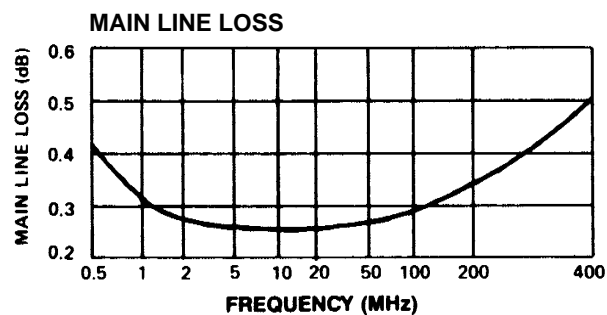
Surface Mount

## SF-1

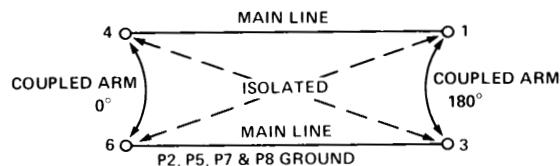


Dimensions in ( ) are in mm.  
Unless otherwise noted: .xxx = ±0.010 (.xx = ±0.25)  
WEIGHT (APPROX.): 0.07 OUNCES 2 GRAMS

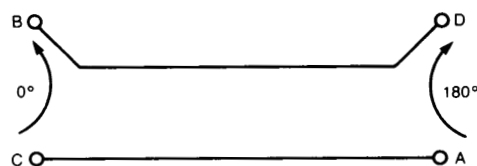
## Typical Performance



## Functional Diagram &amp; Pin Configuration (CH-137)



## Functional Diagram (CHS-137)



## Pin Configuration

## CHS-137

Pin Number	Description
1	C
2	B
3	A
4	D