

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	CH-138
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

Operating Characteristics

Input Power 3.0 Watts Max

Environmental

MIL-STD-202 screening option available.

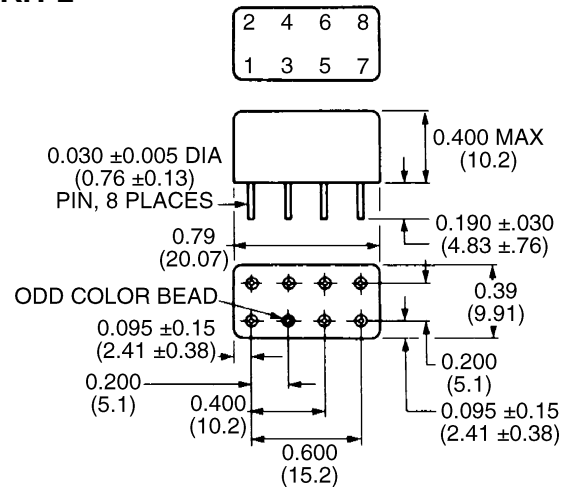
* All specifications apply with 50 ohm source and load impedance.

** Includes theoretical power split.

Ordering Information

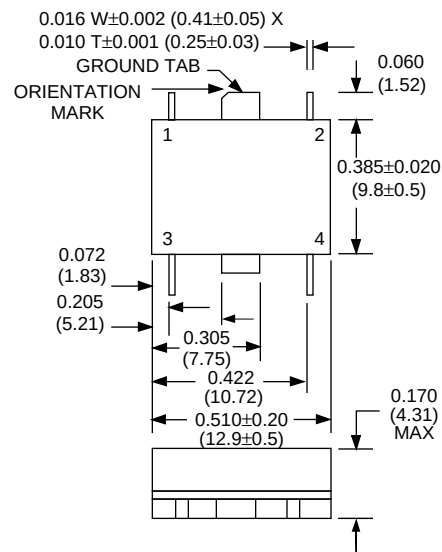
Model No.	Package
CH-137 PIN	Relay Header
CHS-137 PIN	Surface Mount

RH-1



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

SF-1



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

Specifications Subject to Change Without Notice.

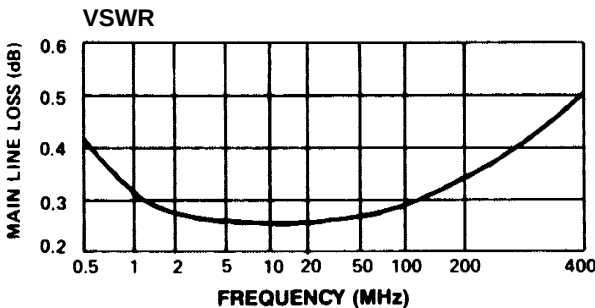
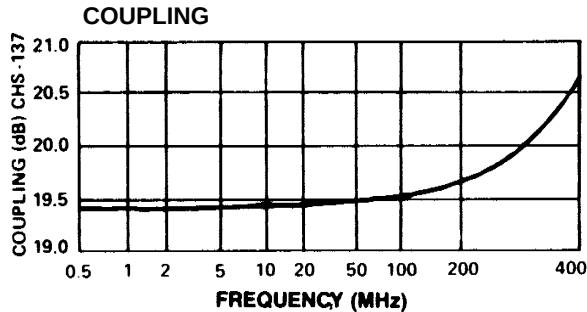
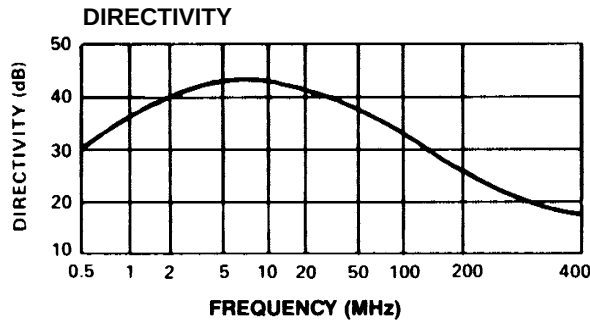
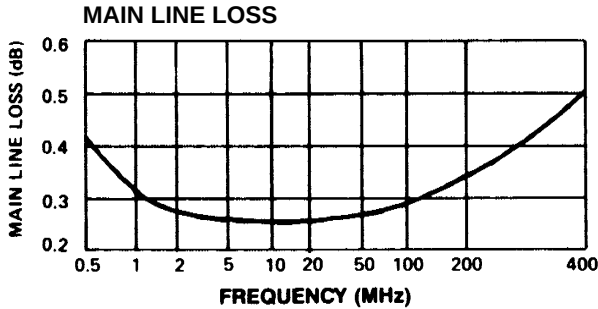
M/A-COM, Inc.

North America: Tel. (800) 366-2266
Fax (800) 618-8883

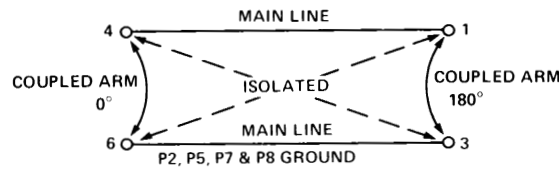
Asia/Pacific: Tel. +81 (03) 3226-1671
Fax +81 (03) 3226-1451

Europe: Tel. +44 (1344) 869 595
Fax +44 (1344) 300 020

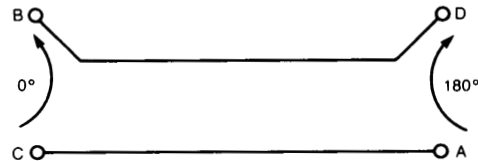
Typical Performance



Functional Diagram & Pin Configuration (CHS-137)



Functional Diagram (CHS-137)



Pin Configuration

CHS-137

Pin Number	Description
1	C
2	B
3	A
4	D