



# 19.5 dB Bi-Directional Couplers, 0.5 - 400 MHz

CH-/CHS-137 V4

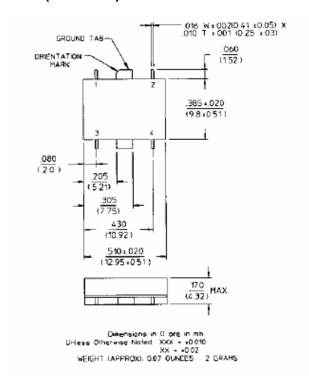
#### **Features**

- Low Cost
- Convenient Plug-In Mounting
- Fully Hermetic Package (CHS-137)
- MIL-STD-202 Screening Available

### **Description**

Bi-Directional Couplers offer the ability to couple the power in two directions while maintaining directivity.

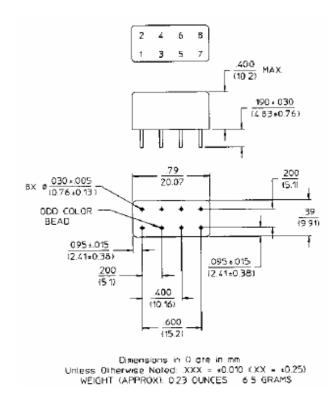
### SF-1 (CHS-137)



# Pin Configuration (CHS-137)

Pin No.	Function	Pin No.	Function
1	С	3	Α
2	В	4	D

### RH-1 (CH-137)



### Pin Configuration (CH-137)

Pin No.	Function	Pin No.	Function
1		5	GND
2	GND	6	
3		7	GND
4		8	GND

<sup>•</sup> North America Tel: 800.366.2266 / Fax: 978.366.2266

<sup>•</sup> Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298





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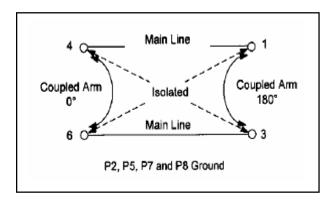
# Electrical Specifications<sup>1</sup>: $T_A = -55$ °C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Coupling	Input to Output	0.5 - 200 MHz 200 - 400 MHz	dB dB	19.0 19.0	19.5 20.0	20.0 21.0
VSWR	All Ports	5 - 200 MHz 0.5 - 400 MHz	Ratio Ratio	_	_	1.2:1 1.5:1
Directivity	Both Directions	0.5 - 50 MHz 50 - 200 MHz 200 - 400 MHz	dB dB dB	30 20 15		
Main Line Loss <sup>2</sup>	_	0.5 - 50 MHz 50 - 200 MHz 200 - 400 MHz	dB dB dB			0.5 0.4 0.6
Input Power	_	_	Watt	_	_	3.0

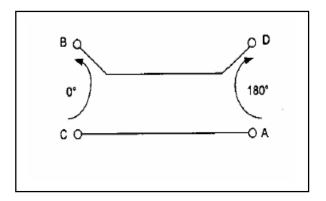
<sup>1.</sup> All specifications apply with 50 ohm source and load impedance.

This product contains elements protected by United States Patent umber 3,426,298.

### **Functional Diagram (CH-137)**



## **Functional Diagram (CHS-137)**



<sup>2.</sup> Includes theoretical power split.

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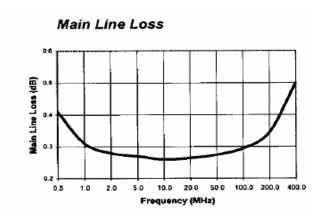


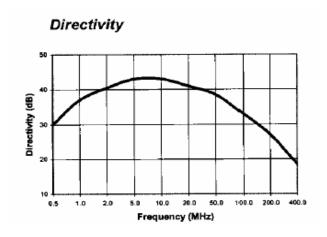


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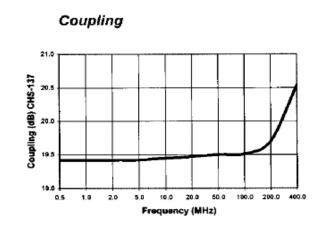
### **Typical Performance Curves**





## **Ordering Information**

Part Number	Package
CH-137 PIN	RH-1
CHS-137 PIN	SF-1



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