

19.5 dB Bi-Directional Couplers 0.5-400 MHz

Rev. V4

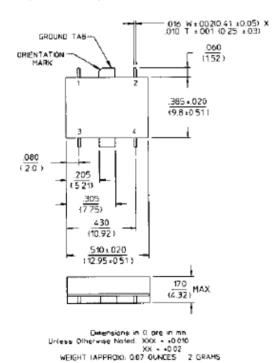
Features

- 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.

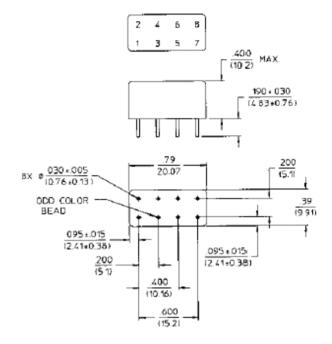
SF-1 (CHS-137)



Pin Configuration (CHS-137)

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

RH-1 (CH-137)



Dimensions in 0 gre in mm
Unless Otherwise Noted: XXX = +0.010 (XX = ±0.25)
WEIGHT (APPROX): 0.23 OUNCES = 6.5 GRAM\$

Pin Configuration (CH-137)

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



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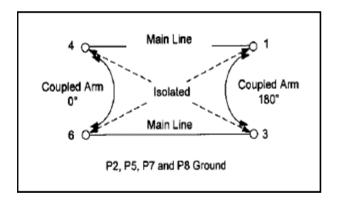
Electrical Specifications¹: T_A = -55°C to +85°C

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 ²	_	0.5 - 50 MHz 50 - 200 MHz 200 - 400 MHz	dB dB dB			0.5 0.4 0.6
Input Power	_	_	Watt	_	_	3.0

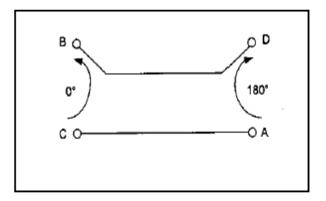
- 1. All specifications apply with 50 ohm source and load impedance.
- 2. Includes theoretical power split.

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

Functional Diagram (CH-137)



Functional Diagram (CHS-137)

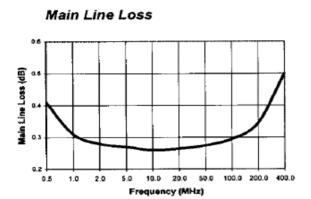


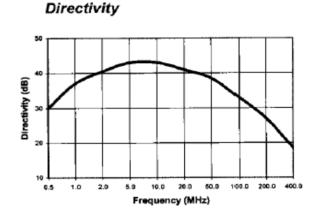


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Typical Performance Curves





Ordering Information

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

Coupling

