CH-/CHS-137



19.5 dB Bi-Directional Couplers, 0.5 - 400 MHz

Rev. V4

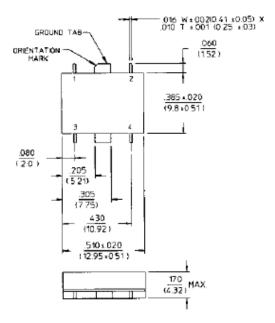
Features

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

Description

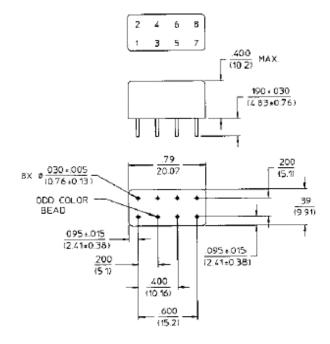
Bi-Directional Couplers offer the ability to couple the power in two directions while maintaining directivity.

SF-1 (CHS-137)



Distensions in (Lorg In mn Unless Otherwise Noted: DOX = x0.010 XX = x0.02 WEIGHT (APPROX): 0.07 OUNCES = 2 GRAMS

RH-1 (CH-137)



Dimensions in 0 are in mm Unless Otherwise Noted: XXX = +0.010 (XX = ±0.25) WEIGHT (APPROX): 023 OUNCES 65 GRAMS

Pin Configuration (CH-137)

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

Pin Configuration (CHS-137)

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

• India Tel: +91.80.4155721

• China Tel: +86.21.2407.1588 Visit www.macomtech.com for additional data sheets and product information.



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Rev. V4

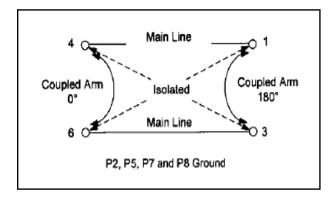
Electrical Specifications¹: $T_A = -55$ °C to +85°C

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

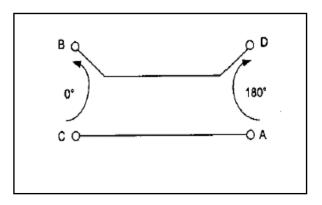
^{1.} All specifications apply with 50 ohm source and load impedance.

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

Functional Diagram (CH-137)



Functional Diagram (CHS-137)



typical. Mechanical outline has been fixed. Engineering samples and Commitment to produce in volume is not guaranteed.

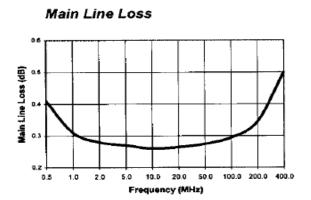
^{2.} Includes theoretical power split.

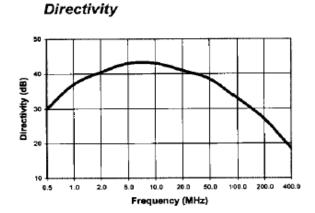


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Typical Performance Curves

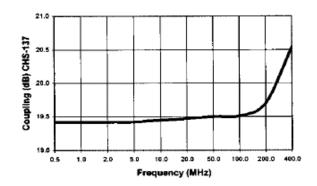




Ordering Information

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

Coupling



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