



11 dB, Bi-Directional Coupler, 10 - 500 MHz

CH-138

Features

- Constant Coupling Within ± 0.5 dB Max
- MIL-STD-202 Screening Available

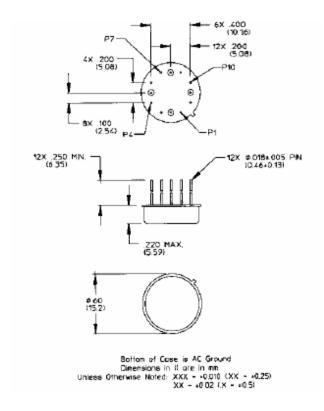
Description

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

Pin Configuration

Pin No.	Function	Pin No. Function		
1	GND	7	GND	
2	В	8	Α	
3	GND	9	GND	
4	GND	10	GND	
5	С	11	D	
6	GND	12	GND	

TO-8-2



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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Coupling	Input to Output	_	dB	9.8	10.8	11.8
Coupling Flatness	_	_	dB	_	_	± 0.5
VSWR	All Ports	10 - 500 MHz 25 - 200 MHz	Ratio Ratio	_	_	1.8:1 1.5:1
Directivity	Both Directions	_	dB	17	_	_
Main Line Loss ²	_	_	dB	_	_	1.6
Input Power	_	_	Watt	_	_	1.0

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

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

Includes theoretical power split.

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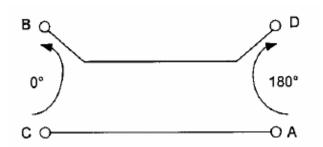




11 dB, Bi-Directional Coupler, 10 - 500 MHz

CH-138 V4

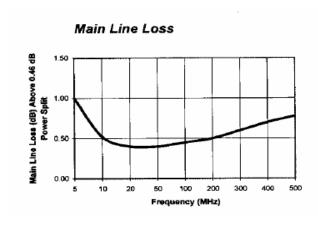
Functional Diagram

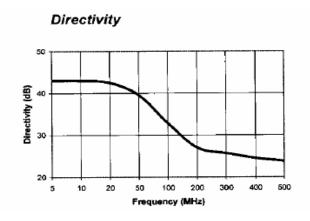


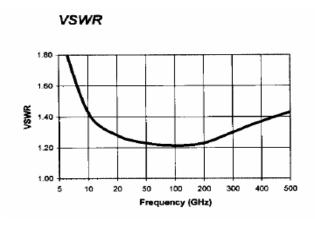
Ordering Information

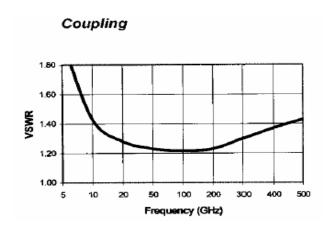
Part Number	Package		
CH-138 PIN	TO-8-2		

Typical Performance Curves









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