

20 dB, Directional Coupler 5-1000 MHz

Rev. V4

Features

- Broadband Flat Coupling
- 0.3 dB Typical Insertion Loss
- 30 dB Typical Directivity
- MIL-STD-883 Screening Available

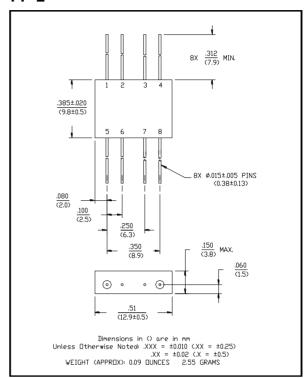
Description

Directional couplers offer the ability to couple the power in one direction.

Pin Configuration

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

FP-2



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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Coupling	Input to Output	_	dB	18.75	19.75	20.75
Coupling Flatness	_	_	dB	_	_	± 0.5
VSWR	All Ports		Ratio	_	_	1.35:1
Directivity	Both Directions	5 - 800 MHz 800 - 1000 MHz	dB dB	20 17	_	_
Main Line Loss ²	_	_	dB	_	_	0.75
Input Power	_	_	Watt	_	_	3.0
Internal Power Dissipation	_	_	Watt	_	_	0.25

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

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

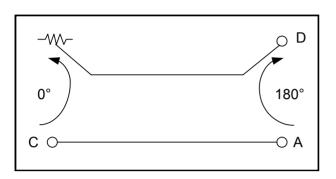
^{2.} Includes theoretical power split.



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Functional Diagram

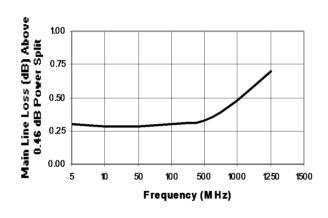


Ordering Information

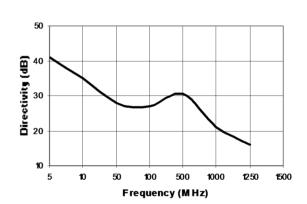
Part Number	Package		
CH-140 PIN	FP-2		

Typical Performance Curves

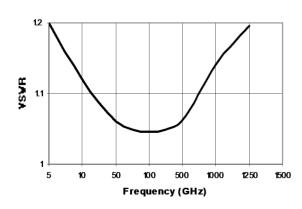
Main Line Loss



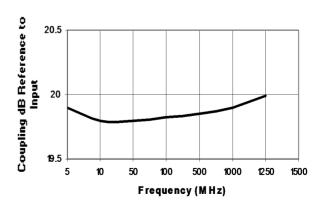
Directivity



VSWR



Coupling



CH-140



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