

## 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

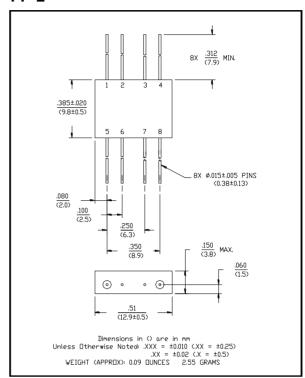
## **Description**

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 Specifications<sup>1</sup>: T<sub>A</sub> = -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 <sup>2</sup>	_	_	dB	_	_	0.75
Input Power	_	_	Watt	_	_	3.0
Internal Power Dissipation	_	_	Watt	_	_	0.25

<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.

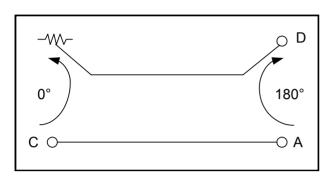
<sup>2.</sup> Includes theoretical power split.



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## **Functional Diagram**

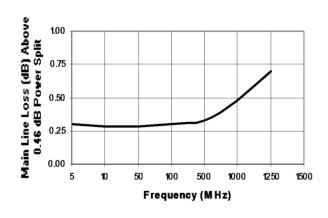


## **Ordering Information**

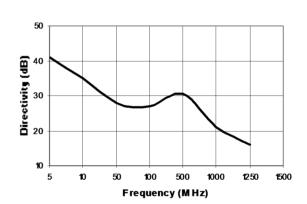
Part Number	Package		
CH-140 PIN	FP-2		

## **Typical Performance Curves**

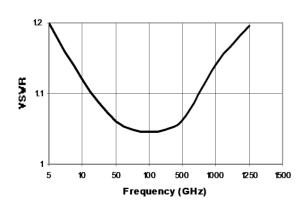
#### Main Line Loss



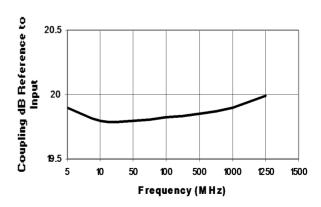
### Directivity



#### **VSWR**



#### Coupling



CH-140



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