

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

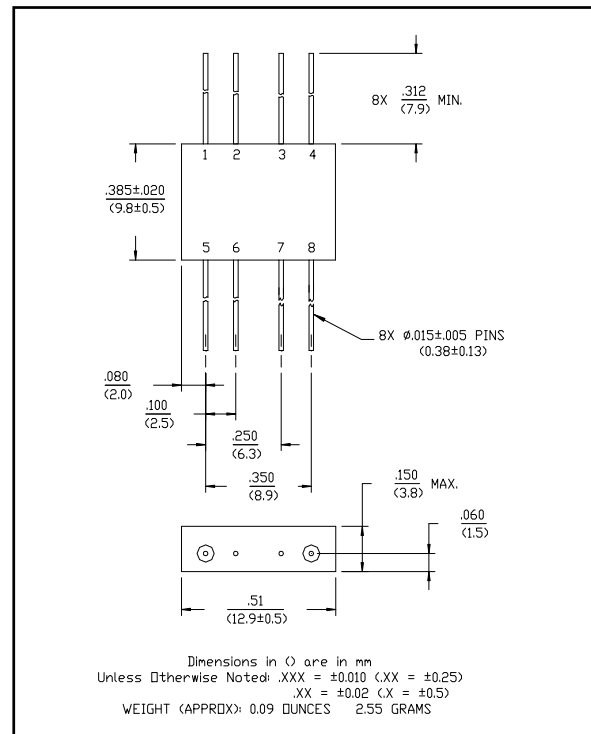
Description

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

Pin Configuration

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

FP-2



Electrical Specifications¹: $T_A = -55^\circ\text{C}$ to $+85^\circ\text{C}$

Parameter	Test Conditions	Frequency	Units	Min	Typ	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.

2. Includes theoretical power split.

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

Functional Diagram

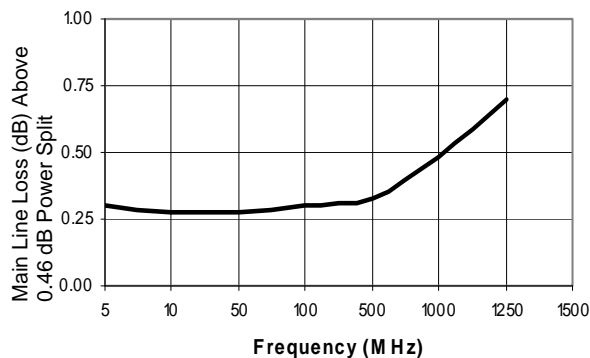


Ordering Information

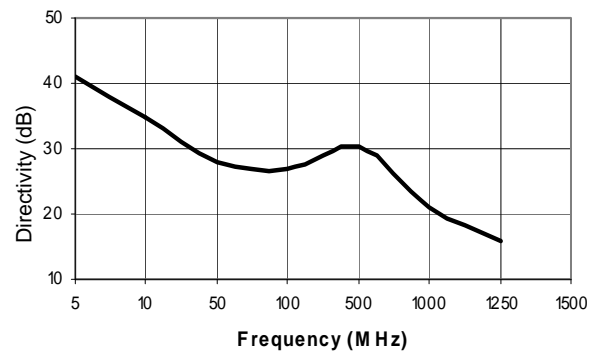
Part Number	Package
CH-140 PIN	FP-2

Typical Performance Curves

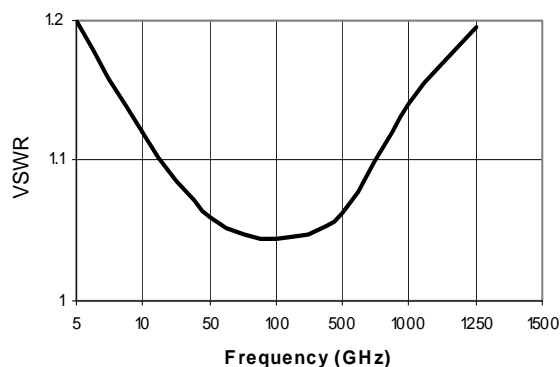
Main Line Loss



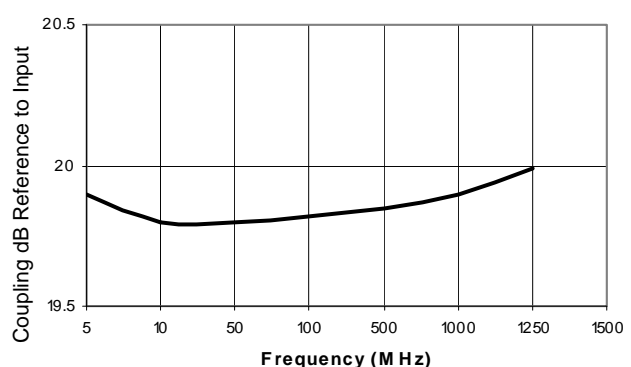
Directivity



VSWR



Coupling



Mouser Electronics

Authorized Distributor

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