



Four-Way Power Dividers

10 - 500 MHz

DS-112/312

V2.00

Features

- Low Loss – 0.6 dB Typical
- High Isolation – 30 dB Typical
- Low VSWR – 1.2:1 Typical

Guaranteed Specifications*

(From –55°C to +85°C)

MODEL	DS-112	DS-312
Frequency Range	10-500	10-500 MHz
Insertion Loss (Less coupling)		
10-400 MHz	0.75	0.75 dB Max
400-500 MHz	0.85	0.85 dB Max
Isolation	25	25 dB Min
Amplitude Balance	0.2	0.2 dB Max
Phase Balance	5°	2° Max
VSWR (All Ports)		
10-25 MHz	1.5:1 Max	
25-500 MHz	1.35:1 Max	
10-400 MHz		1.5:1 Max
400-500 MHz		1.35:1 Max

Operating Characteristics

Impedance	50 Ohms Nominal	
Maximum Power Rating or Input Power	1.0 Watt Max	
Internal Load Dissipation	0.05	0.25 Watt Max
Environmental	MIL-STD-202 screening available.	
Pin Configuration (DS-112)	IN; P4	
	Outputs: P8, P10, P12 & P14	
	All other pins and case are ground.	

* All specifications apply with 50 ohm source and load impedance.

Ordering Information

Model No.	Package
DS-112 PIN	Flatpack
DS-312 BNC	Connectorized
DS-312 TNC	Connectorized
DS-312 N	Connectorized
DS-312 SMA	Connectorized

Specifications Subject to Change Without Notice.

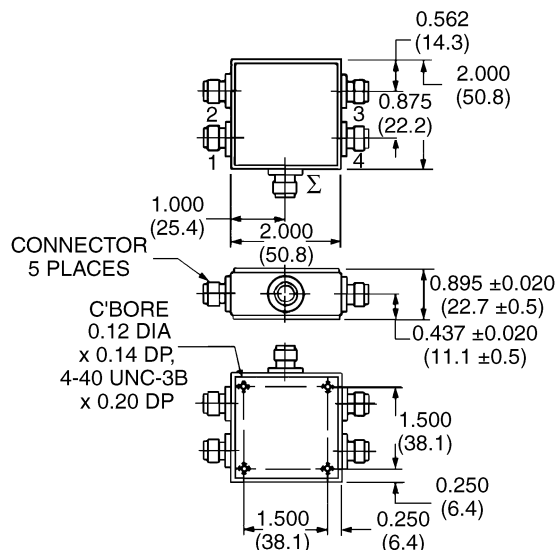
M/A-COM, Inc.

North America: Tel. (800) 366-2266
Fax (800) 618-8883

■ Asia/Pacific: Tel. +81 (03) 3226-1671
Fax +81 (03) 3226-1451

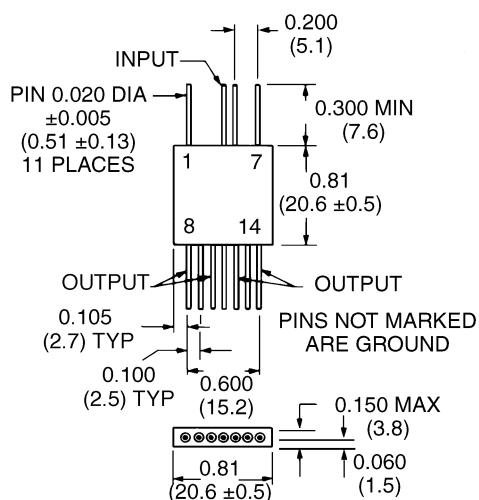
■ Europe: Tel. +44 (1344) 869 595
Fax +44 (1344) 300 020

C-14



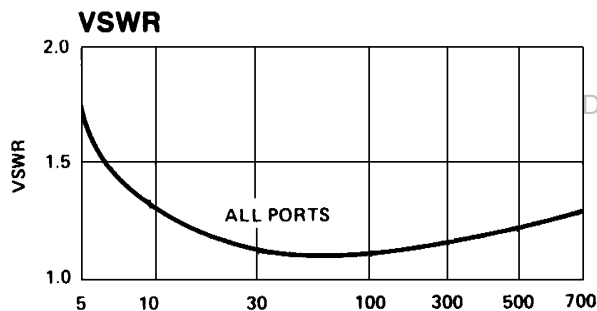
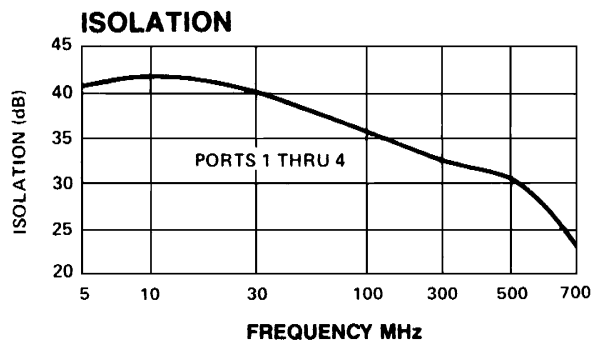
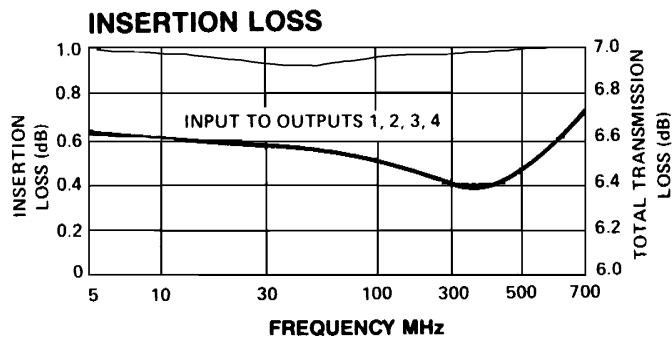
Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ± 0.015 (.x = ± 0.4)
Weight (Approx): 4 ounces 113 grams

FP-5



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ± 0.010 (.xx = ± 0.25)
.xx = ± 0.02 (.x = ± 0.5)
Weight (Approx): 0.21 ounces 6 grams

Typical Performance



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