

Excellent Integrated System Limited

Stocking Distributor

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M/A-Com Technology Solutions DS-313-PIN

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of M/A-Com Technology Solutions: Excellent Integrated System Limited Datasheet of DS-313-PIN - POWER DIVIDER 2-WAY Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

DS- / DSS-313

Two-Way Power Divider, 10 - 2000 MHz

Features

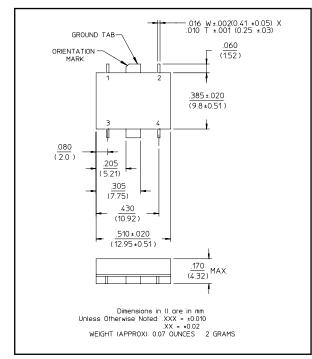
- Fully Hermetic Package
- Loss: 0.6 dB Typical Midband
- Isolation: 28 dB Typical Midband
- VSWR: 1.2:1 Typical Midband
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 250 mW Max.
- Internal Load Dissipation: 50 mW Max.
- MIL-STD-202 Screening Available

Description

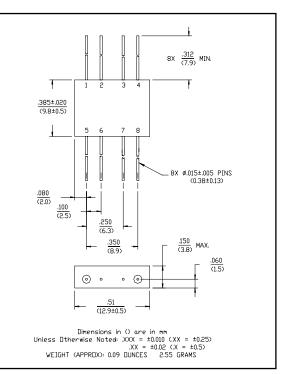
A Power Divider is ideally a lossless reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

SF-1 (DSS-313)

1



FP-2 (DS-313)



Pin Configuration (DS-313)

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

Pin Configuration (DSS-313)

Pin No.	Function	Pin No.	Function
1	Σ	3	GND
2	Output C	4	Output D

- ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed. PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.
- North America Tel: 800.366.2266
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DS- / DSS-313



Two-Way Power Divider, 10 - 2000 MHz

Rev. V3

DS-313 Electrical Specifications¹: $T_A = -55^{\circ}C$ to $+85^{\circ}C$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	dB dB dB			1.1 1.3 1.8
Isolation	_	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	dB dB dB	23 18 12		
Amplitude Balance	_	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	dB dB dB			0.3 0.4 0.6
Phase Balance	_	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	0 0 0			4 6 8
VSWR	All Ports	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	Ratio Ratio Ratio			1.5:1 1.6:1 1.8:1

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Phase Balance	_	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	0 0 0			5 8 11
VSWR	All Ports	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	Ratio Ratio Ratio			1.5:1 1.6:1 1.8:1

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

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DS- / DSS-313

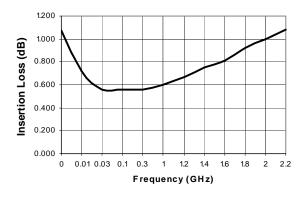
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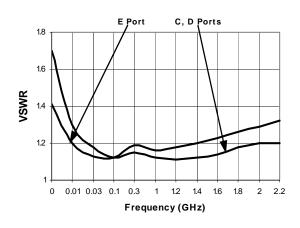
Rev. V3

Typical Performance Curves

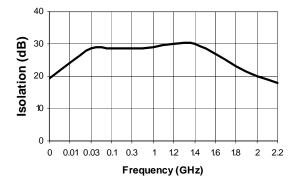
Insertion Loss - Ports Σ-C, Σ-D



VSWR



Isolation - Ports C-D



Ordering Information

Part Number	Package
DS-313 PIN	FP-2
DSS-313 PIN	SF-1

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