M/A-COM

Low Cost Six-Way SMT Power Divider 824 - 960 MHz



Features

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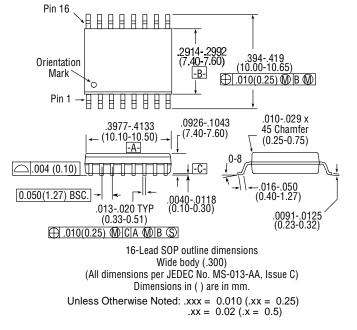
- Small Size, Low Profile •
- Superior Repeatability (Lot-to-lot Variation)
- Industry Standard SOW-16 SMT Plastic Package
- Typical Isolation: 25 dB
- Typical Insertion Loss: 0.3 dB
- Low Cost
- 1 Watt Power Handling

Description

M/A-COM's DS56-0001 is an IC-based monolithic power divider in a low cost SOW-16 plastic package. This 6-way power divider is ideally suited for applications where PCB real estate is at a premium and part count reduction and cost are critical. Typical applications include base station switching networks and other cellular equipment, including subscriber units. Available in tape and reel.

The DS56-0001 is fabricated using a passive-integrated circuit process. The process features full-chip passivation for increased performance and reliability.

SOW-16



Ordering Information

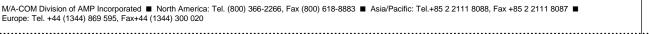
Part Number	Package
	SOW 16-Lead Plastic Package
DS56-0001-TR	Forward Tape and Reel ¹
DS56-0001-RTR	Reverse Tape and Reel ¹

1. If specific reel size is required, consult factory for part number assignment.

Typical Electrical Specifications¹, T₄ = +25^oC

Parameters	Units	Min.	Тур.	Max.
Insertion Loss Above 7.0 dB	dB	—	1.3	1.5
Isolation	dB	20	25	—
VSWR	—	—	1.4:1	1.6:1
Amplitude Balance	dB	—	0.2	0.5
Phase Balance	0	—	6	8

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



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V4.00

Absolute Maximum Ratings¹

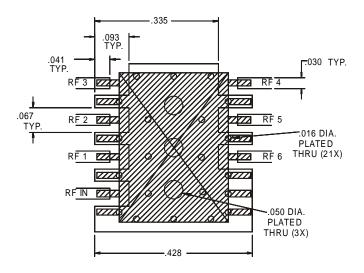
Parameter	Absolute Maximum
Input Power ²	1W CW
Operating Temperature	-40°C to +85°C
Storage Temperature	-65°C to 150°C

1. Exceeding these limits may cause permanent damage.

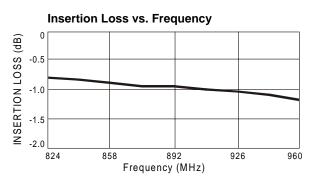
2. With internal load dissipation of 0.125 W maximum.

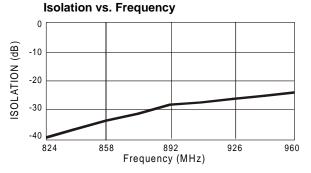
Recommended PCB Configuration

(Dimensions in Inches)

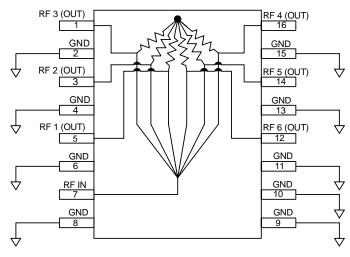


Typical Performance @ +25°C

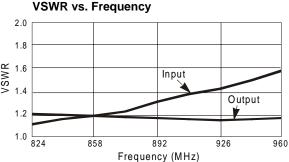




Functional Diagram³



3. Pins 2, 4, 6, 8, 9, 10, 11, 13, and 15 must be DC and RF grounded.



VSWR

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