Low Cost Five-Way GMIC SMT Power Divider 824-896 MHz

Features

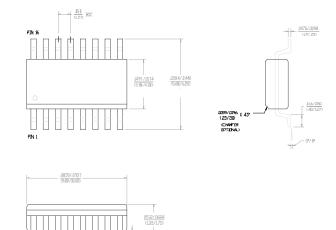
- Small Size, Low Profile
- Superior Repeatability (Lot-to-Lot Variation)
- Industry Standard SOIC-16 SMT Plastic Package
- Typical Isolation: 26 dB
- Typical Insertion Loss: 0.7 dB
- Low Cost
- 1 Watt Power Handling

Description

M/A-COM's DS55-0004 is an IC-based monolithic power divider using M/A-COM's GMIC technology in a low cost SOIC-16 plastic package. This 5-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 DS55-0004 is fabricated using a passive-integrated circuit process. The process features full-chip passivation for increased performance and reliability.

SOIC-16



Ordering Information

Part Number	Package	
DS55-0004	SOIC-16 Lead Plastic Package	
DS55-0004-TR	Forward Tape and Reel ¹	
DS55-0004-RTR	Reverse Tape and Reel ¹	

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

Typical Electrical Specifications¹, $T_A = +25$ °C

Parameter		Units	Min	Тур	Max
Insertion Loss A	Above 7.0dB	dB		0.7	1.2
Isolation		dB	21	26	_
VSWR In	nput			1.4:1	1.6:1
VSWR O	Output			1.2:1	1.5:1
Amplitude Balance		dB	_	0.2	0.6
Phase Balance		0		5	10

^{1.} All specifications apply with a 50-Ohm source and load impedance.

Specifications subject to change without notice.

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

■ Asia/Pacific: Tel.+81-44-844-8296, Fax +81-44-844-8298

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

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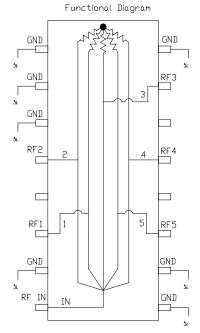


Absolute Maximum Ratings¹

Parameter	Absolute Maximum		
Input Power ²	1 W 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.

Functional Diagram



Pins labeled as ground should be DC and RF grounded

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