Low Cost Five-Way GMIC SMT Power Divider 1850-1990 MHz

Features

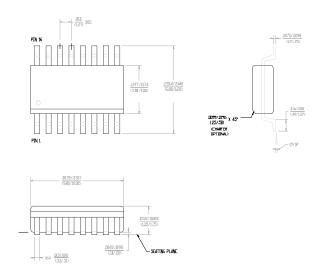
- Small Size, Low Profile
- Superior Repeatability (Lot-to-Lot Variation)
- Industry Standard SOIC-16 SMT Plastic Package
- Typical Isolation: 28 dB
- Typical Insertion Loss: 0.7 dB
- Low Cost
- 1 Watt Power Handling

Description

M/A-COM's DS55-0003 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 DS55-0003 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 | |
|---------------|------------------------------------|--|
| DS55-0003 | SOIC-16 Lead Plastic Package | |
| DS55-0003-TR | Forward Tape and Reel ¹ | |
| DS55-0003-RTR | Reverse Tape and Reel ¹ | |

^{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 | Above 6.0dB | dB | _ | 0.7 | 1.2 |
| Isolation | | dB | 21 | 28 | _ |
| VSWR | Input | _ | _ | 1.5:1 | 1.6:1 |
| VSWR | Output | _ | _ | 1.2:1 | 1.5:1 |
| Amplitude Baland | ce | dB | _ | 0.2 | 0.5 |
| Phase Balance | | 0 | _ | 6 | 12 |

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

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

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



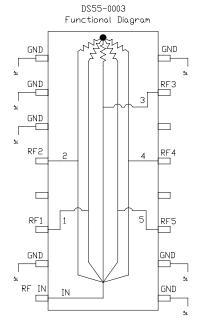


Absolute Maximum Ratings¹

| 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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