

**Low Cost Four-way SMT Power
Splitter/Combiner, 1200 - 1660 MHz**

**DS54-0003
V3**

Features

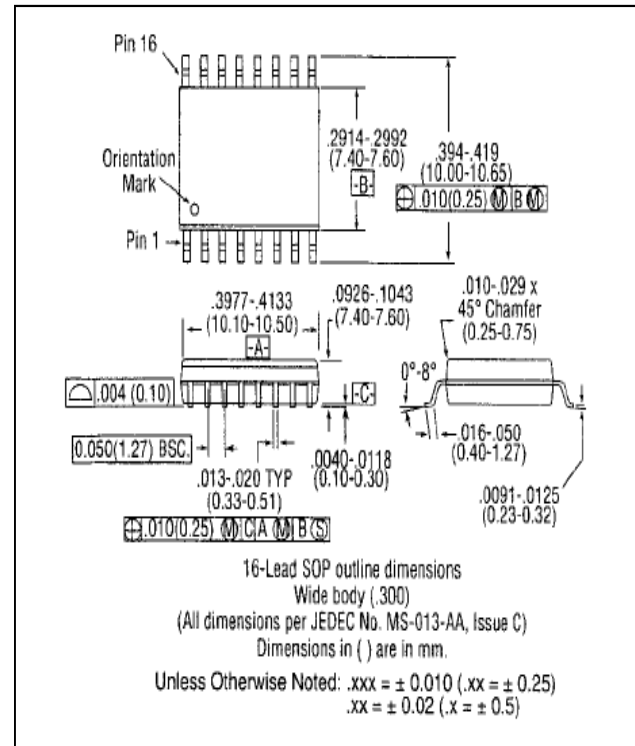
- Low Cost
- Small Size and Low Profile
- Industry Standard SOW-16 SMT Plastic Package
- Excellent Repeatability (Lot-to-Lot Variation)
- Typical Isolation: 23 dB
- Typical Amplitude Balance: 0.3 dB
- Typical Insertion Loss: 1.0 dB
- Commercial and Military GPS and LEO Frequency Coverage

Description

M/A-COM's DS54-0003 is an IC-based monolithic power splitter/combiner in a low cost SOW-16 plastic package. This device is ideally suited for applications where PCB real estate is at a premium and standard packaging for automated assembly and low cost are critical. Typical applications include infrastructure, portables and peripheral devices (PCM CIA cards) for wireless standards such as GSM, AMPS, CDPD, RAM and ARDIS. Available in tape and reel.

The DS54-0003 is fabricated using a passive-integrated circuit process. The process features full-chip passivation for increased performance and reliability.

SOW-16



Electrical Specifications¹: T_A = 25 °C

Parameter	Frequency	Units	Min	Typ	Max
Insertion Loss "above 6.0 dB theoretical loss"	1200 - 1660 MHz	dB	—	1.0	1.2
Isolation	1200 - 1660 MHz	dB	18	23	—
Input VSWR	1200 - 1660 MHz	Ratio	—	1.2:1	1.4:1
Output VSWR	1200 - 1660 MHz	Ratio	—	1.4:1	1.7:1
Amplitude Balance	1200 - 1660 MHz	dB	—	0.3	0.6
Phase Balance	1200 - 1660 MHz	deg	—	2	5

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

Ordering Information

Part Number	Package
DS54-0003	SOW-16 Lead Plastic Package
DS54-0003-TR	Forward Tape and Reel
DS54-0003-RTR	Reverse Tape and Reel