



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

DS54-0003

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 cost are low critical. Typical applications include infrastructure, portables and peripheral devices (PCMCIA cards) for wireless standards such as GSM, AMPS, CDPD, RAM and ARDIS. Available in tape and reel.

The DS54-0003 is fabricated using passive-integrated circuit process. The process

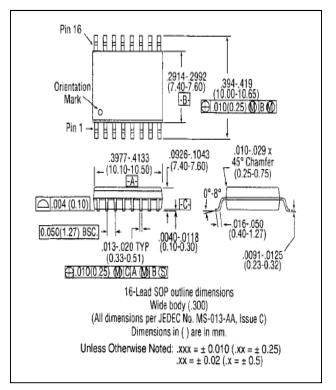
features full-chip passivation for increased performance and reliability. Electrical Specifications ¹ : T _A = 25 °C					
Insertion Loss "above 6.0 dB theoretical loss"	1200 - 1660 MHz	dB	_	1.0	1.2
Isolation	1200 - 1660 MHz	dB	18	23	_
Input VSWR	1200 - 1660 MHz	Ratio	_	1.2:1	1.4:1
Output VSWR	1200 - 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	

SOW-16



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