



Low Cost Eight-way GMIC Power Splitter/Combiner, 824 - 960 MHz

DS58-0001 V1

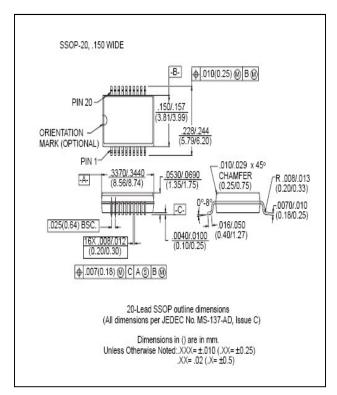
Features

- Small Size. Low Profile
- Superior Repeatability (Lot-to-Lot Varation)
- Industry Standard QSOP-20 SMT Plastic Package
- Typical Isolation: 30 dB
- Typical Insertion Loss: 1.5 dB
- Low Cost
- 1 Watt Power Handling

Description

M/A-COM's DS58-0001 is an IC-based monolithic power divider in low cost SSOP-20 Plastic Packages. This 8-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 DS58-0001 is fabricated using a passive-integrated circuit process. The process features full-chip passivation for increased performance and reliability.

SSOP-20



Electrical Specifications¹: T_A = 25 °C

Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss "above 6.0 dB theoretical loss"	824 - 960 MHz	dB	_	1.5	2.0
Isolation	824 - 960 MHz	dB	20	30	_
VSWR	824 - 960 MHz	Ratio	_	1.7:1	2.0:1
Amplitude Balance	824 - 960 MHz	dB	_	0.4	0.8
Phase Balance	824 - 960 MHz	deg	_	5	10

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

information.

North America Tel: 800.366.2266 / Fax: 978.366.2266

[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

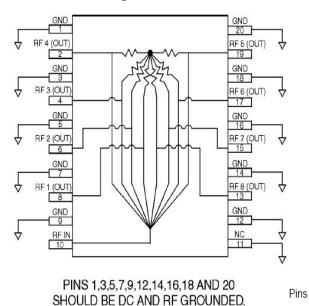




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DS58-0001

Functional Diagram



Ordering Information

Part Number	Package	
DS58-0001	QSOP 20- Lead Plastic Package	
DS58-0001-TR	Forward Tape and Reel	
DS58-001 RTR	Reverse Tape and Reel	

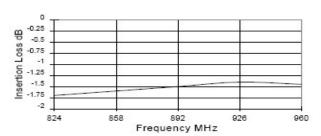
Absolute Maximum Ratings³

Parameter	Absolute Maximum
Input Power 4	1W CW
Operating Temperature	-40°C to +85°C
Storage Temperature	-65°C to +150°C

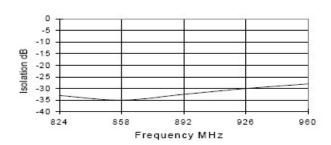
- 3. Operation of this device above any one of these parameters may cause permanent damage.
- 4. With internal load dissipation of 0.125W maximum.

Typical Performance Curves

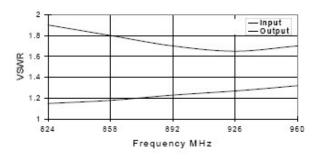
Insertion Loss vs. Frequency (Dashed lines show amplitude balance window)



Isolation vs. Frequency



VSWR vs. Frequency



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