

-B-

<u>.150/.157</u> (3.81/3.99)

> <u>.228/.244</u> (5.79/6.20)

.0040/.0100

.0530/.0690 (1.35/1.75)

20-Lead SSOP outline dimensions (All dimensions per JEDEC No. MS-137-AD, Issue C)

Dimensions in () are in mm.

Unless Otherwise Noted:.XXX=±.010 (.XX=±0.25)

AAAAAAAAA

.3370/.3440 (8.56/8.74)

⊕.010(0.25) M B M

.010/.029 x 45° CHAMFER (0.25/0.75)

- 016/.050

(0.40/1.27)

.XX=.02 (.X=±0.5)

Low Cost Eight-Way SMT Power Divider 1700 - 2000 MHz DS58-0002

SSOP-20

ORIENTATION //

.025(0.64) BSC

PIN 20

PIN 1

16X .008/.012 (0 20/0 30)

⊕.007(0.18) (M) C A (S) B (M)

-A-

V1.00

R .008/.013 (0.20/0.33)

r.0070/.010 (0.18/0.25)

Features

- Small Size, Low Profile
- Superior Repeatability (Lot-to-Lot Variation)
- Industry Standard SSOP-20 SMT Plastic Package
- Typical Isolation: 25 dB
- Typical Insertion Loss: 1.1 dB
- Low Cost
- 1 Watt Power Handling

Description

M/A-COM's DS58-0002 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 DS58-0002 is fabricated using a passive-integrated circuit process. The process features full chip passivation for increased performance and reliability.

Ordering Information

Part Number	Package	
DS58-0002	SSOP 20-Lead Plastic Package	
DS58-0002-TR	Forward Tape and Reel*	
DS58-0002-RTR	Reverse Tape and Reel*	

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

Typical Electrical Specifications¹, $T_A = +25^{\circ}C$

Parameter	Units	Min.	Тур.	Max.
Insertion Loss Above 9.0dB	dB		1.1	1.5
Isolation	dB	20	25	
VSWR			1.4:1	1.8:1
Amplitude Balance	dB		0.8	1.2
Phase Balance	0		8	14

1. All specifications apply with 50-0hm source and load impedance.

The Preliminary Specifications Data Sheet Contains Typical Electrical Specifications Which May Change Prior to Final Introduction.

Asia/Pacific: Tel. +81 (03) 3226-1671 Fax +81 (03) 3226-1451 1

DS58-0002

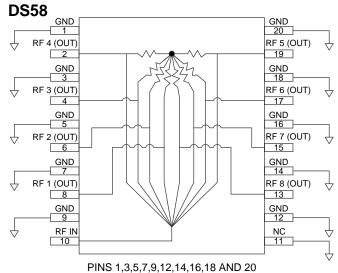
V1.00

Absolute Maximum Ratings¹

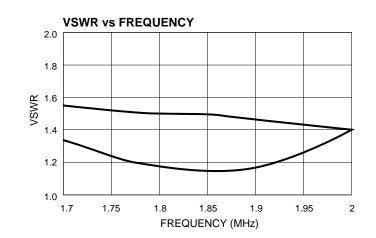
Parameter	Absolute Maximum
Input Power ²	1 W CW
Operating Temperature	-40°C to +85°C
Storage Temperature	-65°C to +150°C

1. Exceeding these limits may cause permanent damage.

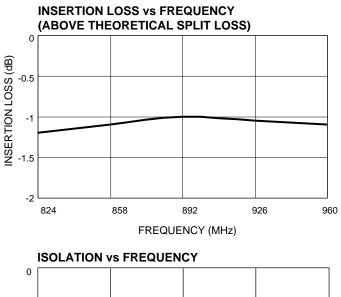
2. With internal load dissipation of 0.125 W Maximum.

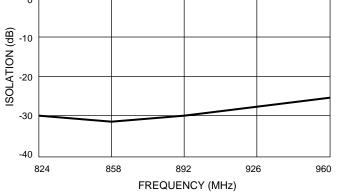


SHOULD BE DC AND RF GROUNDED.



Typical Performance @ +25°C





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

M/A-COM, Inc.