

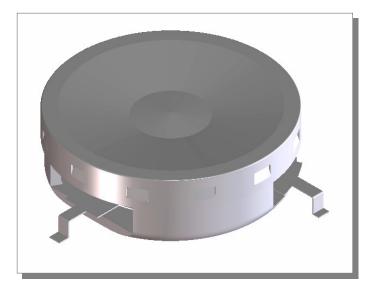
Single Junction Gull Wing Circulator 860 MHz—960 MHz

Features

- Designed for RFID market
- 22dB Isolation typical
- 0.25dB Insertion Loss
- Low cost package

Description

This circulator is designed specifically for RFID applications and features high reliability performance at a low cost. It is in a low cost package ideally suited for high volume manufacturing. M/A Com is one of the largest suppliers of isolator and circulators in the world.



Electrical Specifications $T_A = +25^{\circ}C$, $Z_0 = 50$ Ohms

Parameter	Test Conditions	Units	Min	Тур	Мах
Frequency Range	Over T _{op} ¹	MHz	860		960
Insertion Loss	860 MHz—960 MHz, over T _{op} ¹	dB		0.21	0.40
Isolation	860 MHz—960 MHz, over T _{op} ¹	dB	18.0	29.0	
Return Loss	860 MHz—960 MHz, all ports, over T _{op} ¹	dB	18.0	28.0	
Circulation	Over T _{op} ¹			CW	

1. See "Absolute Maximum Ratings" for Top.

Absolute Maximum Ratings

Parameter	Absolute Maximum	
Forward Power	100 Watts	
Operating Temperature	-10°C to +85°C	
Storage Temperature	-40°C to +100°C	

1. Operation of this device above any one of these parameters may cause permanent damage.

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- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

Visit www.macom.com for additional data sheets and product information.



MAFRIN0370 Version 1



Single Junction Gull Wing Circulator 860 MHz—960 MHz



Ordering Information

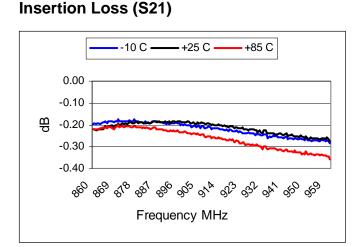
Part Number	Packaging
MAFRIN0370	Tray

Environmental Specifications

Devices are designed to function after exposure to the shock, vibration, thermal shock and moisture conditions typically encountered in base station and other infrastructure environments.

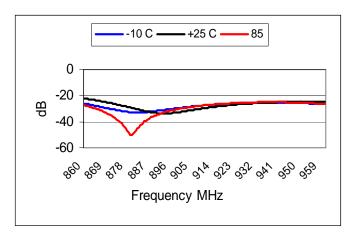
S-Parameters

S-parameters are available on the M/A Com website at: S-Parameters

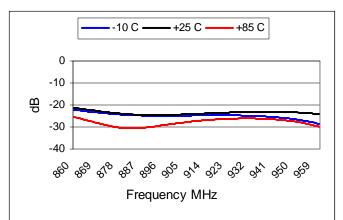


Return Loss (S11)

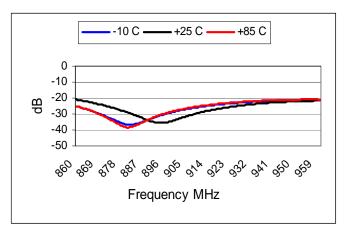
2



Isolation (S12)



Return Loss (S22)



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Single Junction Gull Wing Circulator 860 MHz—960 MHz



MAFRIN0370

200

.08

<u>.570</u> 14.48

2Х

Version 1

Outline Drawing

ЗХ<u>.050</u> 1.27

.400

10.16

ø<u>.920</u> 23.37 1.140

28.96

DC-YYWW 2

TŶ€O 0370

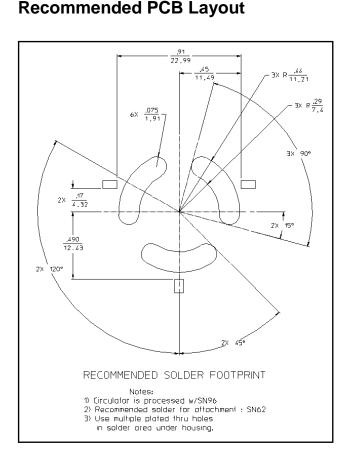
\$60 MH;

1

860 -

570

14.48



3X <u>.005±.001</u> JX <u>0.13±0.03</u> JX <u>0.000±.002</u> JX <u>.000±.002</u> JX <u>0±0.05</u> COPLANARITY

- 1. Dimensions in mm.
- 2. Tolerances: ± 0.2 mm unless otherwise noted.
- 3. Use multiple plated thru holes in ground area under the housing.

1. Dimensions in inches/mm.

- 2. Tolerances: ± 0.3 mm unless otherwise noted.
- 3. Housing: Cold Rolled Steel with SnPb 90/10 plating.
- 4. Cover: CRS with SnPb 90/10 plating.
- 5. Leads: Copper.

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