

Electronics

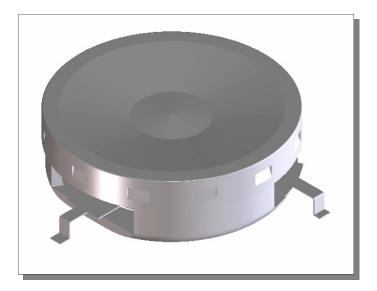
Single Junction Gull Wing Circulator 950 MHz—956 MHz



- 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: $T_A = +25^{\circ}C, Z_0 = 50 \text{ Ohms}$

Parameter	Test Conditions	Units	Min	Тур	Max
Frequency Range	Over T _{op} ¹	MHz	950		956
Insertion Loss	950 MHz—956 MHz, over T _{op}	dB		0.21	0.25
Isolation	950 MHz—956 MHz, over T _{op}	dB	23.0	29.0	
Return Loss	950 MHz—956 MHz, all ports, over T_{op}	dB	23.0	28.0	
Circulation	Over T _{op}			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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- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

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



MAFRIN0453

Version 2



Single Junction Gull Wing Circulator 950 MHz-956 MHz



MAFRIN0453 Version 2

Ordering Information

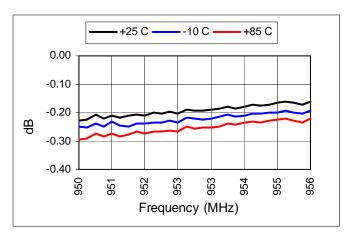
Part Number	Packaging
MAFRIN0453	Tray

Environmental Specifications

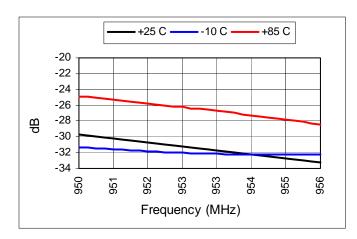
Devices are designed to function after exposure to the shock, vibration, thermal shock and moisture conditions typically encountered in base station and other infrastructure environments.

S-Parameters

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



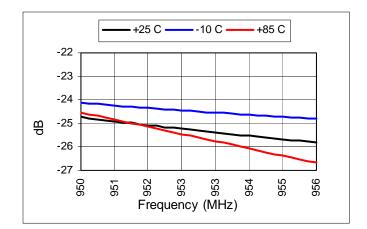
Return Loss (S11)



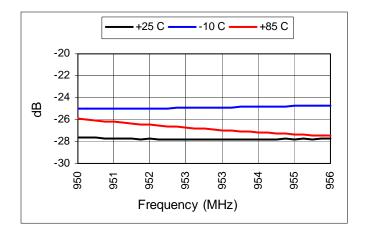
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Isolation (S12)



Return Loss (S22)



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information.

Insertion Loss (S21)



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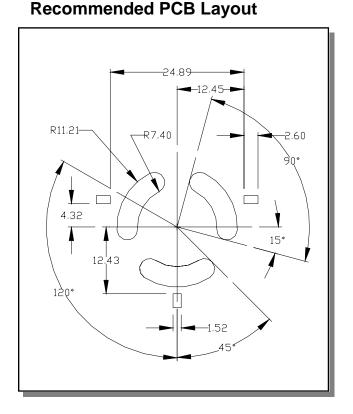
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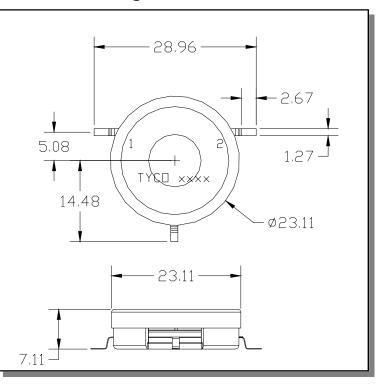
Outline Drawing



1. Dimensions in mm.

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



- 1. Dimensions in 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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