



# Drop-In, High Power, Low Intermod Isolators

MAFRIN0167, MAFRIN0160, MAFRIN0164, MAFRIN0165, MAFRIN0166

## Features

- Designed for Wireless Telecommunication Systems, Base Stations and Power Amplifier applications
- Excellent IM performance
- High Performance at low cost
- High power handling utilizing non-toxic aluminum nitride termination and copper heat sink
- Stable ceramic magnet based design
- Robust construction
- Custom products available with alternate configurations including a dual junction, the addition of an attenuator, detector, TTL logic etc.

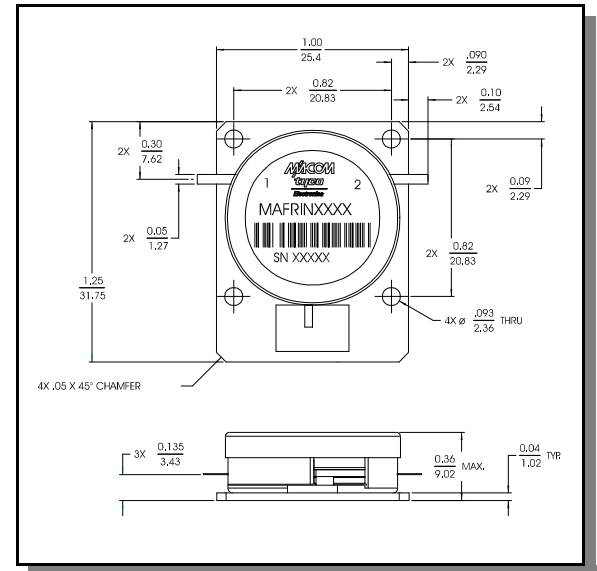
## Description

M/A-COM's drop-in circulators and isolators, designed for wireless Base Station and Power Amplifier applications, feature high reliability performance at a low cost. These proven robust designs are qualification tested. Tests include temperature cycling, high temperature exposure, vibration, shock, and corrosion / moisture testing. These designs feature a low cost package ideally suited for high volume manufacturing. M/A-COM is the world's largest supplier of drop-in isolators and circulators for the wireless infrastructure market.

## Specifications

Parameter	
Isolation	20 dB Min. 25 dB Typical
Insertion Loss	0.25 Max. 0.20 dB Typical
Forward Power	100 Watts
Reflected Power	70 Watts
VSWR	1.22:1 Max.
Passive Intermod Prod.	-80 dBc with two 30 W tones
Operating Temperature	-10 °C to +70°C

## Outline Drawing



Model Number	Frequency Range
MAFRIN0167	869 –894 MHz
MAFRIN0160	925 - 960 MHz
MAFRIN0164	1805 -1880 MHz
MAFRIN0165	1930 - 1990 MHz
MAFRIN0166	2090 - 2190 MHz

M/A-COM Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. MA-COM makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does M/A-COM assume any liability whatsoever arising out of the use or application of any product(s) or information.

Visit [www.macom.com](http://www.macom.com) for additional data sheets and product information.

- North America: Tel. (800) 366-2266
- Asia/Pacific: Tel. +81-44-844-8296, Fax +81-44-844-8298
- Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020