



# 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.

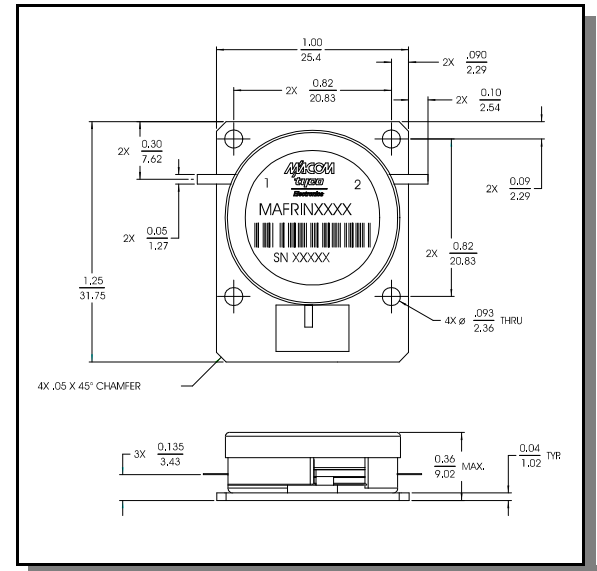
## Description

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

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