

# Miniature Surface Mount Dual Isolators

MAFRIN0034, MAFRIN0035, MAFRIN0036

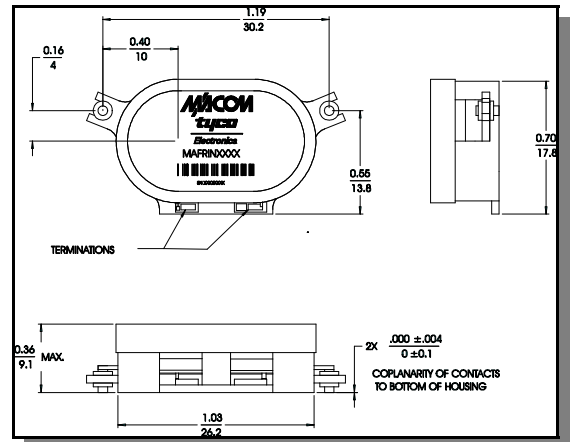
## Features

- Replaces industry standard single junction with a dual junction with 25 dB more isolation with only 0.1 dB more insertion loss in the same space
- Designed for Wireless Telecommunication Systems: GSM1800, PCS1900, UMTS2100 (3G)
- High performance at low cost in a miniaturized package.
- Small size, 1" Vs. industry standard of 2"
- Low mass, less than 18 grams vs. industry standard of greater than 36.0 grams.
- The small size utilizes less real estate on the RF board while providing equal or better RF performance than the industry 2 inch standard for a dual junction isolator.
- Incorporates a patented Robust Lead approach which withstands the most severe shipping, handling and processing procedures without degradation in RF or mechanical performance.
- One piece housing and patented robust lead design guarantees co-planarity between the contacts and the ground plane of 0.1 mm.
- The small size and low mass make the device suitable for automatic pick and place systems and for solder reflow profiles. This hands-free soldering further lowers the cost of ownership.
- Possible tape-and-reel packaging
- Environmentally safe materials used, no lead option available.

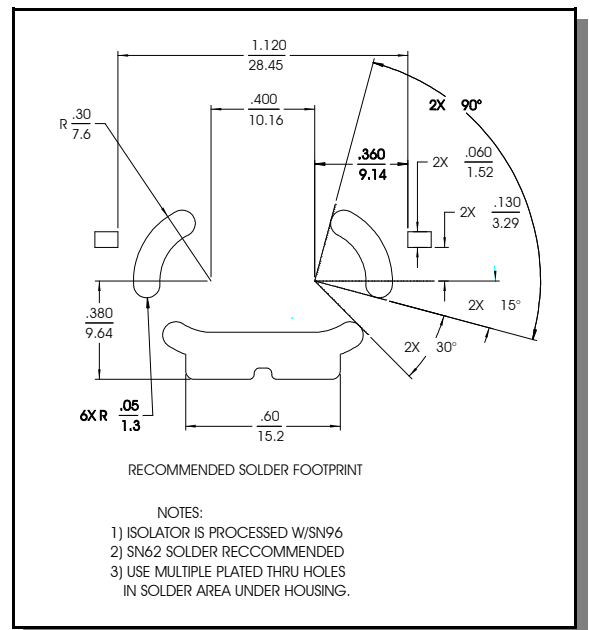
## Description

M/A-COM's surface mount and 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 surface mount and drop-in isolators and circulators for the wireless infrastructure market.

## Outline Drawing



## Mounting Dimensions



## Specifications

Parameter	
Isolation	45 dB Min. 50 dB Typical
Insertion Loss	0.45 Max. 0.35 dB Typical
Forward Power	20 Watts
Reflected Power	10 Watts
VSWR	1.22:1 Max.
Operating Temperature	-10 °C to +70 °C

Model Number	Frequency Range
MAFRIN0034	1805 -1880 MHz
MAFRIN0035	1930 - 1990 MHz
MAFRIN0036	2110 –2170 MHz

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