

Miniature Surface Mount Dual Isolators

MAFRIN0034, MAFRIN0035, MAFRIN0036

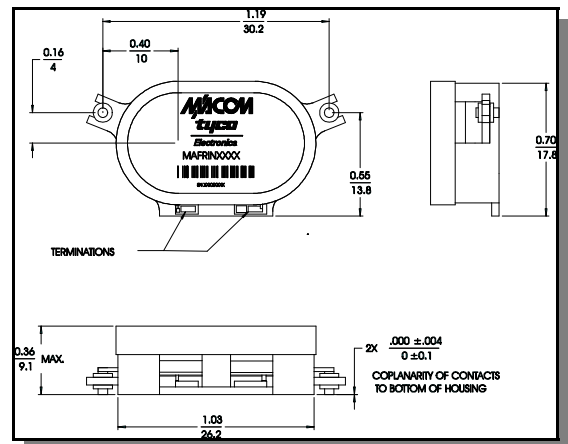
Features

- 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.

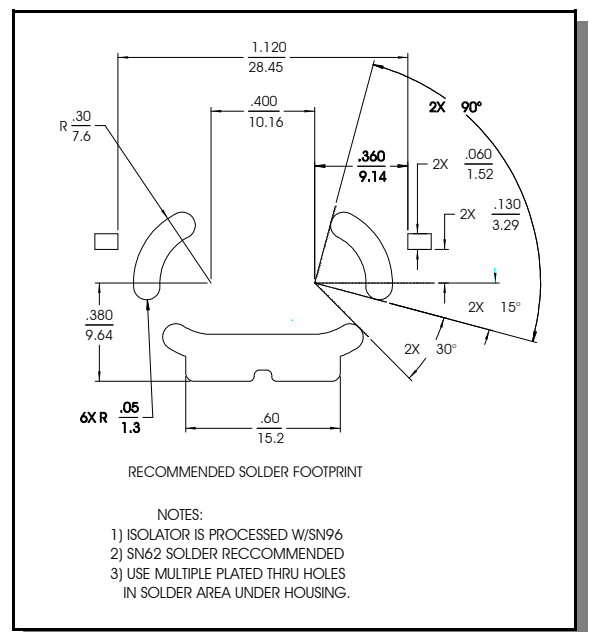
Description

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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- **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