

UMX502-UMX812

Metal Electrode Leadless Face Bonded High power Ceramic PIN Diodes

New Series of Low-Cost, MELF PIN Diodes Feature 2 GHz Switching, 500 V Breakdown Voltage

Microsemi is pleased to announce the UMX502-UMX812, a new series of low cost, metal electrode leadless face bonded (MELF) high power, ceramic PIN diodes. This series of PIN diodes are hermetically sealed, Hi-Rel surface mount packaged devices with full face bonded chips, and very low inductance construction.

The MELF PIN diodes are ideal for a wide range of general purpose and broadband switching, attenuating and phase-shifting applications from high frequency through 2 GHz, as well as for use in MRI coil switching and other “low magnetic” applications. Specific applications include test instrumentation, antenna and T/R switching, UHF radar and EW systems, VHF/UHF switching, cellular base station, and commercial TV switching.

Available in a highly compact surface mount (2.03 mm x 2.92 mm x 0.20 mm) ceramic MELF package, these RoHS compliant products meet the requirements of EU directive 2002/95/EC, and are fully compatible with pick and place and solder reflow manufacturing techniques.

UMX502-UMX812, are ESD HBM Class 2 products, and exhibit breakdown voltage ratings up to 500 V.

For product sales or technical information contact sales.support@microsemi.com

Microsemi offers a complete line of RF and Microwave GaAs and silicon PIN diodes designed for low intermodulation switching and attenuation. Available products cover a wide variety of applications and range from ultra-low C_j , beam lead PIN diodes capable of switching up to 40 GHz, to high power PIN diodes designed to handle 60 dBm CW power.



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