

Melf Resistors General Information

Token MELF Offers Designer a Greater Choice

Token Electronics is now offering the complete range of MELF products, comprising DIN-0411, DIN-0309, DIN-0207, DIN-0204 and DIN-0102. These high stability, close-tolerance MELF resistors have a footprint very close to comparable chip resistors but maintain their tolerance and deliver higher stability over a wider temperature range.

Download Entire [MELF Resistors Catalogue](#) in PDF file (472KB).

Where applications require even tighter tolerance, Token offer Ultra Precision range in the RJM package, with values from $0.1\Omega \sim 22M\Omega$, tolerance from $\pm 5\%$ down to as low as $\pm 0.05\%$ and TC from $\pm 50\text{ppm}/^\circ\text{C}$ to $\pm 5\text{ppm}/^\circ\text{C}$.

For high pulse load and high-frequency applications, Token Electronics offer specialised MELF resistors. The high pulse load resistors are metal glaze film RGM, available in values from $50K\Omega \sim 22M\Omega$ and $\pm 0.5\%$ precision tolerance, for $0.125\text{ W} \sim 3\text{ W}$ applications.

High-frequency RFM resistors are available for RF microwave applications where impedance change due to the parasitic inductance of regular resistors is not acceptable.

Chip Resistor Alternatives

In very low resistance values, between 0.1Ω and 475Ω , not usually offered by conventional chip resistors, these are available in RJM72P 0102, RJM73P 0204, RJM74P 0207 and standard RJM18M 0411 MELF precision packages.

All MELF-type resistors are available on blister tape for automated placement and maintain their high stability, high precision characteristics when exposed to soldering temperatures and operating stresses including moisture, vibration, humidity and temperature variation within the specified range.

This makes them suitable for a wide range of applications, from laboratory and prototyping work to installation in hostile environments such as airframe or under-bonnet areas, exposed parts of vehicles, or other places where electronic sensing and controls must be installed.