



Stackpole Electronics, Inc.
Resistive Product Solutions

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Stackpole's MLF and MLFM Series MELFs Offer Significantly Lower Operating Temperatures at Rated Power

RALEIGH, NC (December 6, 2010) - Stackpole's MLF and MLFM Series metal electrode leadless face (MELF) resistors offer significantly lower operating temperatures at rated power compared to similar sized flat chip resistors. Their cylindrical form increases the surface area exposed to the air and disperses the heat generated from the part to the air more efficiently. The 0204 size runs at only 55C at ½ watt and the 0207 size runs at only 67C at 1 watt. For comparison, standard 2010 thick film flat chip resistors will run at around 140C and 2512's will run at around 150C assuming equivalent board materials and design. This significant improvement allows design engineers more flexibility in design layout and can also allow downsizing or adding functionality to existing designs.



The MLF and MLFM Series are ideally suited for a wide variety of power supplies requiring higher power density or lower self heating. Additional applications include industrial controls, utility metering, automotive instrumentation, heavy equipment instrumentation, medical instrumentation and monitoring, test equipment and instrumentation, and audio equipment.

The MLF and MLFM Series are available in 0204 and 0207 sizes in ¼ watt, ½ watt and 1 watt power ratings. Resistance values, from 1 ohm to 10Meg ohms, with tolerances as low as 0.1% and TCR's as low as 10 ppm. Pricing varies with size, tolerance, and TCR and ranges from \$0.018 each to \$0.47 each in full reel quantities. Contact Stackpole or one of our franchised distributor partners for volume pricing on any specific product.

<http://www.seielect.com/companyInfo/customers.asp>.

For more information about Stackpole products, contact Stackpole Electronics, Inc. at 2700 Wycliff Road Suite 410, Raleigh NC 27607; phone 919-850-9500; email marketing@seielect.com ; or visit the website at www.seielect.com.

Stackpole Electronics Inc. is a leading global manufacturer of resistors supplying to the world's largest OEMs, contract manufacturers and distributors. Headquartered in Raleigh, N.C., the privately held company began manufacturing in 1928 as part of Stackpole Carbon Company in St. Mary's, Pennsylvania. Now affiliated with Akahane Electronics, Stackpole has manufacturing facilities in Japan, Taiwan, China and Mexico; warehousing facilities in El Paso, Hong Kong and Japan; and sales offices in Tokyo, Hong Kong and Taiwan.