High-voltage COTS Filters Perform over an Extended Temperature Range

LCR Electronics, a leading manufacturer of EMI filters and electronic control products as well as high-end enclosures for military, telecom and commercial applications, now offers a line of single phase 300 VAC 50/60Hz COTS filters ideal for high reliability applications as found in the lighting, military and medical industries.

Operating over an ambient temperature range of -40°C to +85°C (-40°F to +185°F), the new RoHS-compliant Single Stage 0913 Filters and Double Stage 0923 Filters are used where higher voltages and operating temperature ranges than standard off the shelf filters are required.

The new 300 VAC 50/60 Hz EMI filters are available with rated current from 1 A to 40 A for the 0913 filters and 1 A to 30 A for the 0923 filters in both general purpose and low leakage current versions. High potential voltage for both series is 1,450 VDC line-to-line and 2,250 VDC line-to-ground.

Depending on the current rating, insertion loss for the 0913 filters measured in a 50 ohm system for frequencies starting at 50 kHz up to 30 MHz ranges from 5 dB to 52 dB in common mode and 5 dB to 35 dB in differential mode. Insertion loss for the 0923 filters ranges from 5 dB to 80 dB in common mode and 10 dB to 75 dB in differential mode under the same conditions.

These latest filters join the nearly 18,000 different cost-effective filter designs constructed by LCR over its 25 year history. The company specializes in developing solutions for its customers’ project-specific applications and getting these designs to market quickly and efficiently.

For more information, visit www.lcr-inc.com [1] or email sales@lcr-inc.com [2]
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Source URL (retrieved on *12/10/2013 - 1:37am*):
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