Non-Isolated Point-of-Load Converters

Murata has added a miniature 1.5A SIP model to the Murata Power Solutions OKR family of non-isolated point-of-load converters. The OKR-T/1.5-W12-C provides an ideal solution for designs that require low load current with limited board space. In addition, this SIP packaged, through-hole mounted miniature device combines a wide input voltage range with programmable output voltage to give engineers a high degree of flexibility in their designs.

Part of the comprehensive Okami family of PoL DC/DC power converters, the OKR series offers designers a choice of 1.5, 3, 6 and 10 Amp modules in a through-hole (SIP) format. The use of a common, industry-standard footprint and form factor across the product range helps simplify inclusion of the devices in both existing and new designs. Applications include the powering of ASICs, FPGAs, DSPs, microprocessors and communications ICs in both datacom and industrial equipment.

Based on 600 kHz synchronous buck topology, the OKR-T/1.5-W12-C offers high power conversion efficiencies of 93% and also has the ability to drive up to 200 uF ceramic capacitive loads.

Output voltage is programmable from 0.591 to 6.0 VDC and is able to operate from a wide input voltage range of 4.5 to 14 VDC. The OKR-T/1.5-W12-C delivers outstanding thermal derating performance and other design features including over temperature and over current protection, remote On/Off control, and under voltage lock out (UVLO).

Overall dimensions are 10.4 x 10.16 x 6.1 mm (0.41 x 0.40 x 0.24 inches). Operating temperature range is – 40 to + 85 degrees C. The units are designed to meet UL/EN/EC 60950-1 safety and FCC EMI/RFI emission certifications and are RoHS-6 compliant.

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