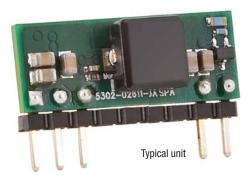


## **Okami OKX-T/5-D12 Series**

### Adjustable 5-Amp SIP Non-Isolated DC/DC Converters



- Non-isolated SIP PoL DC/DC power module
- 8.3-13.8Vdc input voltage range
- Programmable output voltage from 0.7525-5.5Vdc
- Under Voltage shutdown (Vin)
- Drives 1000 µF ceramic capacitive loads
- High power conversion efficiency 93% at 5 Vout (typical)
- Outstanding thermal derating performance
- Over temperature and over current protection
- On/Off control
- UL60950, CSA-C22.2 No.60950 IEC/EN60950 (pending)
- Industry-standard (DOSA) SIP format
- RoHS-6 hazardous substance compliance



#### PRODUCT OVERVIEW

The OKX-T/5-D12 series are miniature SIP nonisolated Point-of-Load (POL) DC/DC power converters for embedded applications. The module is fully compatible with Distributed-power Open Standards Alliance industry-standard specifications.

Applications include powering CPU's, datacom/ telecom systems, programmable logic and mixed voltage systems. The wide input range is 8.3 to 13.8 Volts DC at 5 amps. Based on fixed-frequency synchronous buck converter switching topology, the high power conversion efficient Point of Load (PoL) module features programmable output voltage and On/Off control. These converters also include under voltage lock out (UVLO), output short circuit protection, over-current and over temperature protections. These units are designed to meet all standard UL/EN/IEC 60950-1 safety certifications and RoHS-6 hazardous substance compliance.

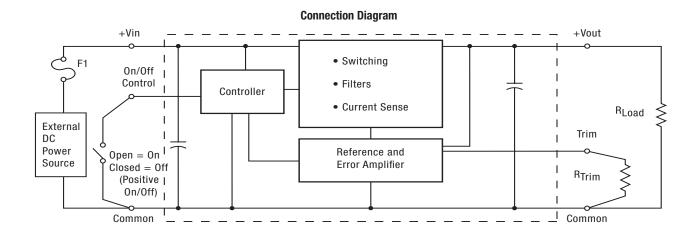


Figure 1. OKX-T/5-D12

Note: Murata Power Solutions strongly recommends an external input fuse, F1. See specifications.











# Mkami OKX-T/5-D12 Series

## Adjustable 5-Amp SIP Non-Isolated DC/DC Converters

PERFORMANCE SPECIFICATIONS SUMMARY AND ORDERING GUIDE													
	Output						Input						
		Іоит		R/N	Regula	tion (Max.)			lin,	lin,	Effic	iency	Case
Model Number ①	Vout (Volts) ①	(Amps, max) ①	Power (Watts)	(mVp-p) Max. ②	Line	Load	Vin Nom. (Volts)	Range (Volts) 3	no load (mA)	full load (Amps)	Min.	Тур.	Dimensions are in inches (mm)
0KX-T/5-D12-C	.7525-5.5	5	25	25	±0.2%	±0.5%	12	8.3-13.8	45	2.24	91.5%	93.0%	0.40x0.90x0.282 (10.16x 22.86x 7.163)

- All specifications are at nominal line voltage, Vout=nominal (5V for D12 models) and full load, +25°C unless otherwise noted.
- ② Ripple and Noise (R/N) is shown at Vout=1V. See specs for details.
- $\ensuremath{\,^{\circlearrowleft}}$  The input voltage range must be 0.5V greater than the output voltage.

