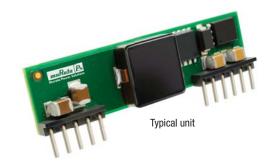


Mkami OKX T/10 & T/16-W5 Series

Adjustable DOSA 10/16-Amp SIP DC/DC Converters



FEATURES

- Non-isolated SIP POL DC/DC power module
- 2.4-5.5Vdc input voltage range
- Programmable output voltage from 0.7525-3.63Vdc
- 10 Amp (T/10) or 16 Amp (T/16) output current models
- Drives 1000 µF ceramic capacitive loads
- High power conversion efficiency 95% at 3.3 Vout
- Outstanding thermal derating performance
- Over temperature and over current protection
- On/Off control, Sense and optional Sequence/ Tracking input
- UL/EN/IEC 60950-1 safety
- Industry-standard (DOSA) SIP format
- RoHS-6 hazardous substance compliance

PRODUCT OVERVIEW

The OKX-T/10 and -T/16 series are miniature SIP non-isolated Point-of-Load (POL) DC/DC power converters for embedded applications. The module is fully compatible with Distributed-power Open Standards Alliance (DOSA) industry-standard specifications (www.dosapower.com). Applications include powering CPU's, datacom/telecom systems, programmable logic and mixed voltage systems.

The wide input range is 2.4 to 5.5 Volts DC. Two maximum output currents are offered, 10 Amps (T/10 models) or 16 Amps (T/16 models). 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. An optional Sequence/Tracking input allows controlled ramp-up and ramp-down outputs. The Sense input provides load compensation. 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.

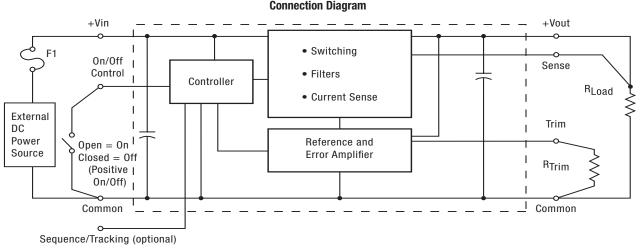


Figure 1. 0KX2-T/10, -T/16

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





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	Output						Input								Package C86, Pinout P84
Model Number @		Іоит		R/N (mVp-p) Max. ④	Regulation (Max.)				lin,	lin,	Effic	Efficiency		Sequence/	Case
	Vоит (Volts)	(Amps max)	Power (Watts)		Line	Load	Vin Nom. (Volts)		no load (mA)	full load (Amps)	Min.	Тур.	Logic	Tracking	Dimensions are in inches (mm)
0KX-T/10-W5P-C	0.7525-3.63	10				- ±0.5%	5	2.4-5.5	5	6.91	94.0%		Pos.	no	2.0x0.5x0.37
	011020 0100							2 0.0							(50.8x12.7x9.4)
	0.7525-3.63	10	33	25	±0.2%		5	2.4-5.5					Neg.	no	2.0x0.5x0.37
															(50.8x12.7x9.4)
	0.7525-3.63	10					5	2.4-5.5					Dee	yes	2.0x0.5x0.37
JKA2-1/10-W3F-G													POS.		(50.8x12.7x9.4)
	0.7505.0.00	10					5 2	0455					Nee	yes	2.0x0.5x0.37
)KX2-T/10-W5N-C	0.7525-3.03	10						2.4-5.5	00				iveg		(50.8x12.7x9.4)
	0 7505 0 00	10					_		80	11.12	93.0%	95.0% -	Pos.	no	2.0x0.5x0.37
DKX-T/16-W5P-C	0.7525-3.63	16					5	2.4-5.5							(50.8x12.7x9.4)
OKX-T/16-W5N-C		10		30	±0.3%		_						Neg.	no	2.0x0.5x0.37
	0.7525-3.63	16	52.8				5	2.4-5.5							(50.8x12.7x9.4)
	0.7525-3.63	16					_						Pos.	yes	2.0x0.5x0.37
)KX2-T/16-W5P-C							5	2.4-5.5							(50.8x12.7x9.4)
							_	2.4-5.5							2.0x0.5x0.37
0KX2-T/16-W5N-C	0.7525-3.63	16					5						Neg.	yes	(50.8x12.7x9.4)

① The input voltage range must be 0.5V greater than the output voltage.

② All specifications are at nominal line voltage, Vout=nominal (3.3V for W5 models) and full load, +25 deg.C. unless otherwise noted.

Output capacitors are 1 μ F ceramic and 10 μ F electrolytic in parallel. Input cap is 22 μ F. See detailed specifications. I/O caps are necessary for our test equipment and may not be needed for your application. 3 Use adequate ground plane and copper thickness adjacent to the converter.

 $\circledast\quad$ Ripple and Noise (R/N) is shown at Vout=1V. See specs for details.

