


TKF-series

Single and Dual Output DC/DC Converter – Regulated



- > 1-Watt
- > DIP Package
- > Fixed Input Range
- >  RoHS
- > 15,000 VDC Isolation

ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range (DC)	12V \pm 10%
	15V \pm 10%
	24V \pm 10%

OUTPUT SPECIFICATIONS

Output Voltage Range (DC)	Single Output	Dual Output
	+5V at 200mA	\pm 5V at \pm 100mA
+12V at 83mA	\pm 12V at \pm 42mA	
+15V at 66mA	\pm 15V at \pm 33mA	

Output Voltage Accuracy \pm 3.0%
Ripple & Noise 20mV rms Typ

GENERAL SPECIFICATIONS

Switching Frequency 40KHZ
Short Circuit Protection Momentary
RoHS Compliant
MTBF 60,000 Hours Min
Line Regulation 1.0%
Load Regulation 1.0%
Isolation Voltage (Continuous) 15,000VDC; 10,000VAC
Isolation Voltage (Momentary for 60 sec) 20,000VDC; 14,140VAC
Isolation Voltage (Momentary for 1 sec) 25,000VDC

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range 0 ~ 50°C (De-rating linearly to 0% power at 100°C)
Storage Temperature Range -25°C ~ +125°C
Cooling Free-air Convection

PHYSICAL SPECIFICATIONS

Dimensions (length x width x height) (inches) DIP: 2.05 x 0.87 x 0.83

PART NUMBERS

Vin	Single Output		Dual Output	
12VDC	+5V at 200mA	TKF12H05K1	±5V at ±100mA	TKF12D05K1
	+12V at 83mA	TKF12H12K1	±12V at ±42mA	TKF12D12K1
	+15V at 66mA	TKF12H15K1	±15V at ±33mA	TKF12D15K1
15VDC	+5V at 200mA	TKF15H05K1	±5V at ±100mA	TKF15D05K1
	+12V at 83mA	TKF15H12K1	±12V at ±42mA	TKF15D12K1
	+15V at 66mA	TKF15H15K1	±15V at ±33mA	TKF15D15K1
24VDC	+5V at 200mA	TKF24H05K1	±5V at ±100mA	TKF24D05K1
	+12V at 83mA	TKF24H12K1	±12V at ±42mA	TKF24D12K1
	+15V at 66mA	TKF24H15K1	±15V at ±33mA	TKF24D15K1

PACKAGE DRAWING and PIN CONNECTIONS

All dimensions in inches

