



# 10 WATT SINGLE OUTPUT

## Regulated, 3.3 Vdc Output DC/DC Converters



### FEATURES

- Input/Output Isolation
- Input Filter Pi Network
- Efficiency to 80% @ FL
- 100KHz Min. Switching Frequency
- Short Circuit & Overvoltage Protection
- Remote On/Off Control (Optional)
- 6-Sided Shielding
- Epoxy Encapsulated

KW10- 3 Series

### Specifications

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

#### INPUT

Input Voltages.....	Voltage Range
5 Vdc.....	4.5-6 Vdc
12 Vdc.....	9-18 Vdc
24 Vdc.....	18-36 Vdc
48 Vdc.....	36-72 Vdc
Input Filter.....	Pi Network

#### OUTPUT

Voltage Accuracy.....	±3% max.
Line Regulation.....	±0.5%
Load Regulation .....	±1.0%
Ripple Noise (20 MHz BW).....	50mVp-p max.
Temperature Coefficient (at FL).....	±0.02%/°C max.
Transient Response, 25% load step.....	< 20µms

#### REMOTE ON/OFF CONTROL (Optional)

Control Voltage Referenced To Negative (-) Input	
Compatability.....	CMOS, TTL
On Control.....	4.8V min. on open
Off Control.....	0-1.8V max. on short
Logic Input Reference to Minus Input	
Logic Compatibility.....	TTL or CMOS

#### GENERAL

Efficiency.....	80% typical
Isolation Voltage.....	500 Vdc min.
Isolation Resistance.....	100MOhms
Switching Frequency.....	100KHz min.
Protection.....	Short Circuit Protection Over Voltage Protection

#### ENVIRONMENTAL

Operating Temperature Range.....	-25 to +70°C
Storage Temperature Range.....	-55 to +125°C
Cooling.....	Free Air Convection
EMI/RFI.....	Six-Sided Continuous Metal Shield

#### PHYSICAL

Case Material.....	Black Coated Copper w/ Non-Conductive Metal Base
Dimensions.....	2.00" x 2.00" x 0.45"

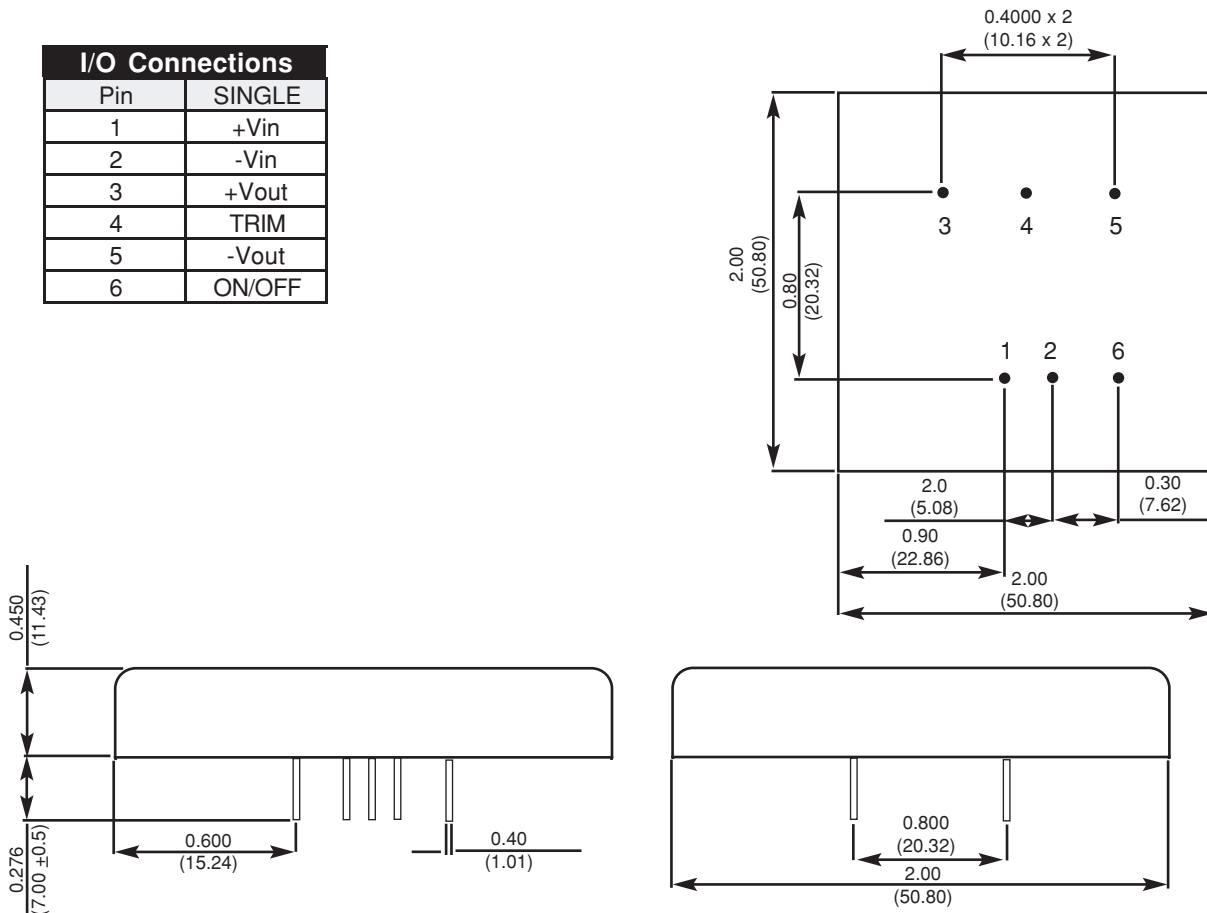
Selection Guide

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SINGLE OUTPUT	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Input Current (mA)		Model Number	Case
				No Load	Full Load		
	5 (4.5-6)	3.3	3000	10	2470	KW10-5S03	B2A
	12 (9-18)	3.3	3000	10	1030	KW10-12S03	B2A
	24 (18-36)	3.3	3000	10	500	KW10-24S03	B2A
	48 (36-72)	3.3	3000	10	246	KW10-48S03	B2A

Mechanical Specifications

I/O Connections	
Pin	SINGLE
1	+Vin
2	-Vin
3	+Vout
4	TRIM
5	-Vout
6	ON/OFF



All dimensions are in Inches(mm)



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