



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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KB10

10 Watt Single and Dual Output, PCB Mountable AC/DC Switching Power Supply



FEATURES

- **PC BOARD MOUNTABLE**
- **SUPER SMALL SIZE**
- **HIGH POWER DENSITY**
- **UNIVERSAL INPUT / "CE-MARK"**
- **HIGH RELIABILITY**
- **OVERCURRENT PROTECTION**
- **TWO YEAR WARRANTY**

SAFETIES / EMI




FCC Part 15-B
EN 55022-B

ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load.

INPUT SPECIFICATIONS

Input Voltage.....	AC 85V-264V
Input Frequency.....	47-63 Hz
Input Current.....	Vin= 115v 0.18A
	Vin= 230v 0.12A
Inrush Current.....	Vin= 100v 3.2A
	Vin= 230v 7.5A

OUTPUT SPECIFICATIONS

Output Voltage.....	See Chart
Output Adjustment.....	No Adjustment
Efficiency.....	75~80%
Over-Voltage Protection.....	N/A
Over-Current Protection.....	Automatic Recovery (105% min)
Ripple and Noise.....	150 mVp-p (typ.)
Hold-Up Time.....	Vin= 100v 11mSec
	Vin= 230v 90mSec
Line/Load Regulation.....	0.4% / 1% (MAX)
Rise Time.....	Vin= 100v 130mSec
	Vin= 230v 115mSec
Leakage Current.....	Vin= 100v 0.12 m Arms
	Vin= 230v 0.26 m Arms

GENERAL SPECIFICATIONS

Switching Frequency.....	100 KHz Typ
MTBF.....	>280,000 Hours Typ
Isolation Voltage	
Primary to Secondary.....	3000 VAC
Primary to Case.....	1500 VAC
Secondary to Case.....	500 VAC
Isolation Resistance.....	100 MΩ

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0°C ~ +60°C
	Derates linearly 2.5%/°C after 50°C
Cooling.....	Convection
Temperature Coefficient.....	0.02% / °C
Humidity.....	20~85% Rh
Storage Temperature.....	-20° ~ +85°C
Shock/Vibration.....	Shock: 20G (3 Directions each 3 times)
	Vibration: 1~55Hz

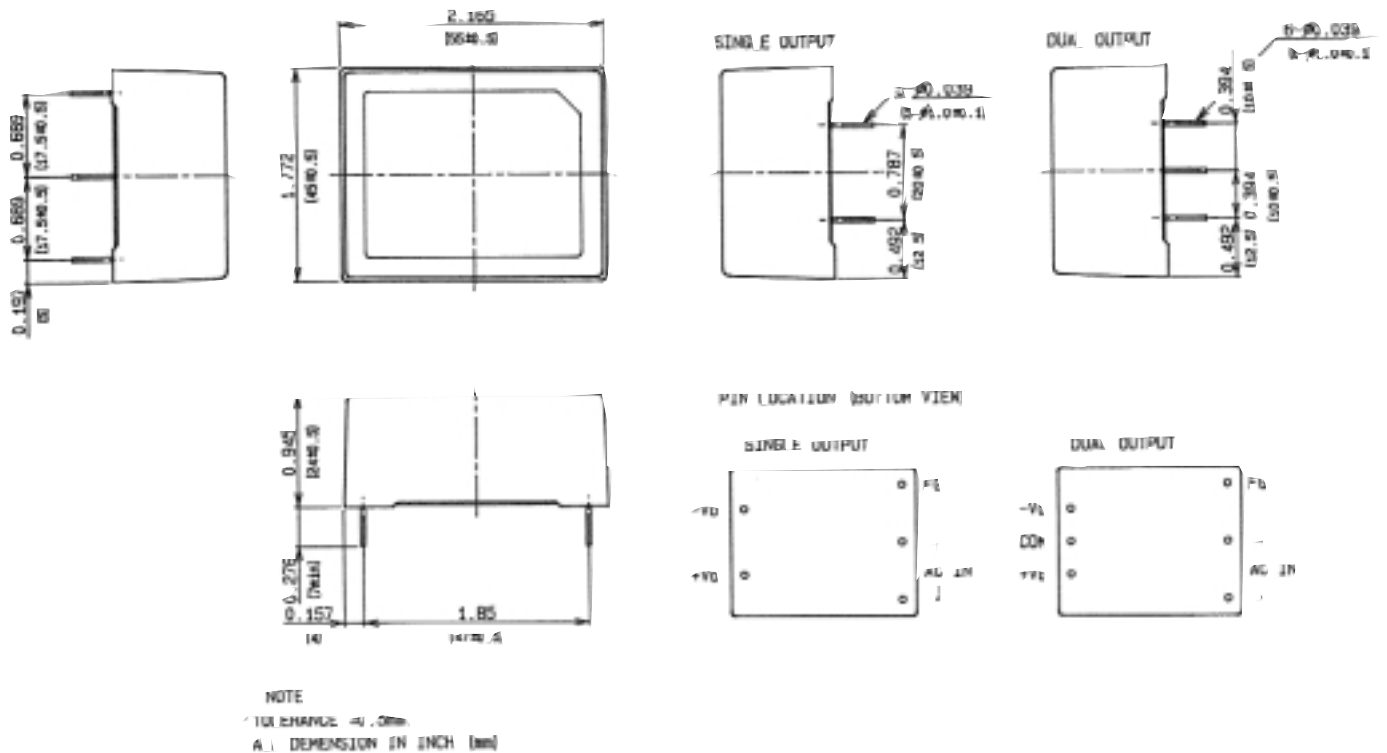
PHYSICAL SPECIFICATIONS

Board Level Encapsulated
 Thru- hole Pins

Series

MODEL	INPUT RATING	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY AT 100% LOAD (TYP.)
KB10-05S	115-230 V 50-60 HZ	5 VDC	0 ~ 2.0 A	75%
KB10-12S	115-230 V 50-60 HZ	12 VDC	0 ~ 0.9 A	80%
KB10-15S	115-230 V 50-60 HZ	15 VDC	0 ~ 0.7 A	80%
KB10-24S	115-230 V 50-60 HZ	24 VDC	0 ~ 450 mA	80%
KB10-122D	115-230 V 50-60 HZ	± 12 VDC	±45 ~ 450 mA	80%
KB10-153D	115-230 V 50-60 HZ	± 15 VDC	±35 ~ 350 mA	80%

KB10 Series



NOTE:
 All specifications typical and nominal / full load and 25°C unless otherwise noted.
 Avoid sustained operation in overload or dead short conditions.
 Specifications subject to changes without notice.

• Dimensions in mm