



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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Model

# KBI-B02D-RH

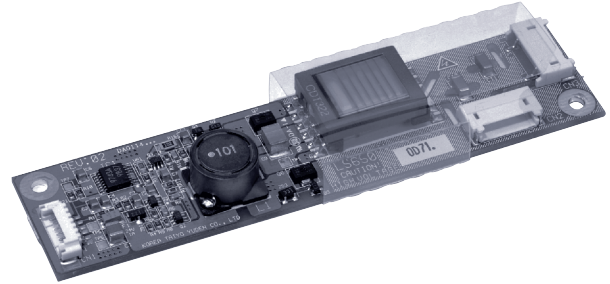
12 Volt Input

Dual Tube CCFT Inverter

Brightness Control

### Physical Specifications

Dimensions:	105mm x 25mm x 10mm (4.13" x 0.98" x 0.39")
Operating Temp:	-10 to 70°C, convection cooling
Relative Humidity:	20% to 90%, non-condensing
Storage:	-20 to 85°C/5-95% RH
Impact Resistance:	50G half wave per 2 msec
Vibration Resistance:	10-55-10 Hz/min @ 1.5mm



### Input Specifications\*

Item	Condition	Standard
Input Voltage Rated Tolerance	— Continuous Operation Starting Condition (Discharge Starting Voltage)	12 Vdc 10.8 V - 13.2 V 10.8 V - 13.2 V
Max. Input Current	$V_{IN} = 12$ Vdc Luminance @ Max.	560 mA Typ.
Max. Input Power	$V_{IN} = 12$ Vdc Luminance @ Max.	6.0 W
DC-Bright	$I_{OUT} = \text{Max}$ $I_{OUT} = \text{Min}$	5 V 0 V

\*Above Specifications Occur @ 25 ± 5°C

### Output Specifications\*

Item	Condition	Standard		
		MIN	TYP	MAX
Output Voltage (Vrms)	$V_{IN} = 12$ Vdc	—	500	—
Starting Voltage (Vrms)	$V_{IN} = 10.8$ Vdc	1450	—	—
Tube Current for per Lamp (mArms)	$V_{IN} = 12$ Vdc	3.0	—	6.0
Output for 2 Lamps (W)	$V_{IN} = 12$ Vdc/Luminance @ Max.	—	6.0	—
Frequency (kHz)	Luminance @ Max.	—	55	—

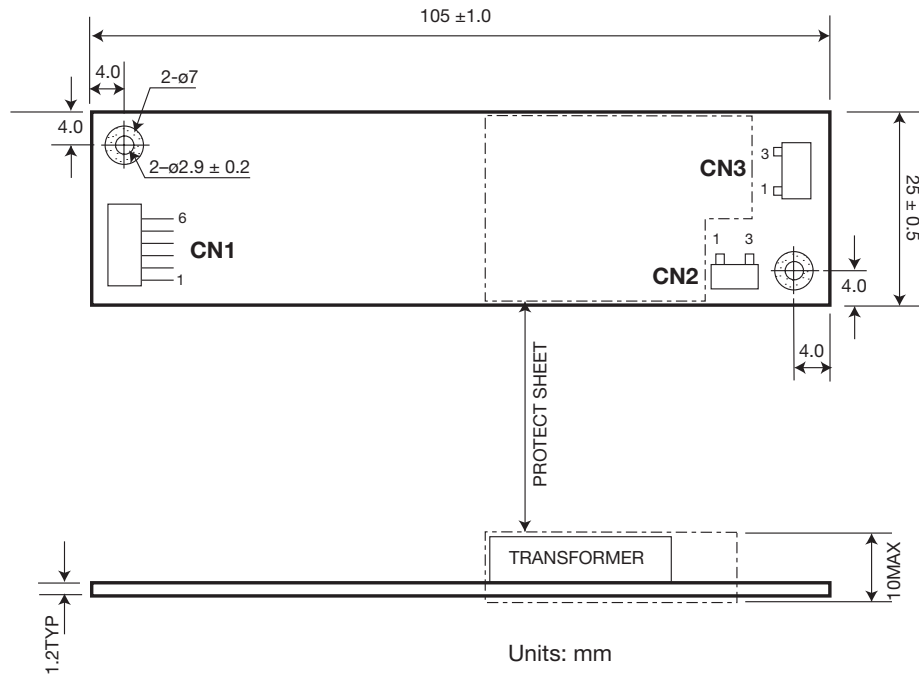
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## Luminance Variance

Item	Condition	Applied Voltage	Output Current
Luminance @ Max.		Vcont = 5 V	6 mA (one lamp)
Luminance @ Min.		Vcont = 0 V	3 mA (one lamp)



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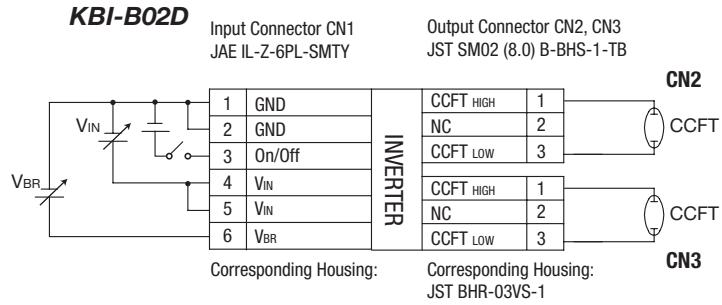
FM 32227

Model

# KBI-B02D-RH

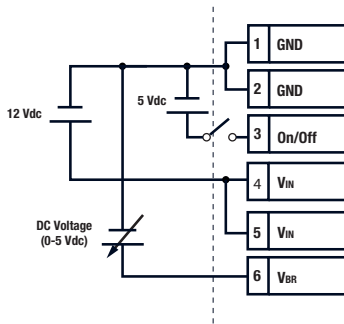
## Tech Notes

### Connection Diagram



### DC Bright Control Method\*

Maximum output current can be adjusted by applying bias voltage as shown below.



dimming by applying DC bias voltage

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