

Model

KBI-B02D-RH

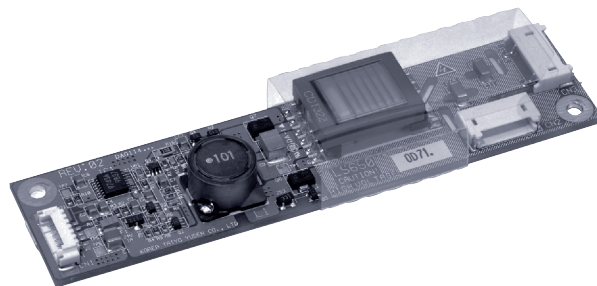
12 Volt Input

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	—	12 Vdc
Rated	Continuous Operation	10.8 V - 13.2 V
Tolerance	Starting Condition (Discharge Starting Voltage)	10.8 V - 13.2 V
Max. Input Current	$V_{IN} = 12 \text{ Vdc}$ Luminance @ Max.	560 mA Typ.
Max. Input Power	$V_{IN} = 12 \text{ Vdc}$ 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)	$V_{IN} = 12 \text{ Vdc}$	—	500	—
Starting Voltage (Vrms)	$V_{IN} = 10.8 \text{ Vdc}$	1450	—	—
Tube Current for per Lamp (mAmps)	$V_{IN} = 12 \text{ Vdc}$	3.0	—	6.0
Output for 2 Lamps (W)	$V_{IN} = 12 \text{ Vdc/Luminance @ Max.}$	—	6.0	—
Frequency (kHz)	Luminance @ Max.	—	55	—

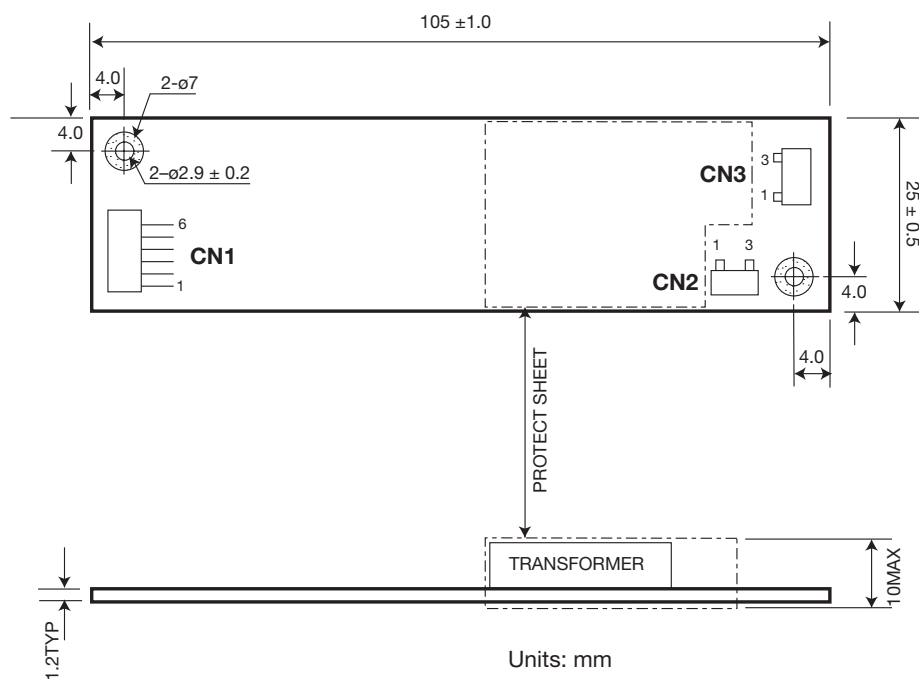
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Luminance Variance

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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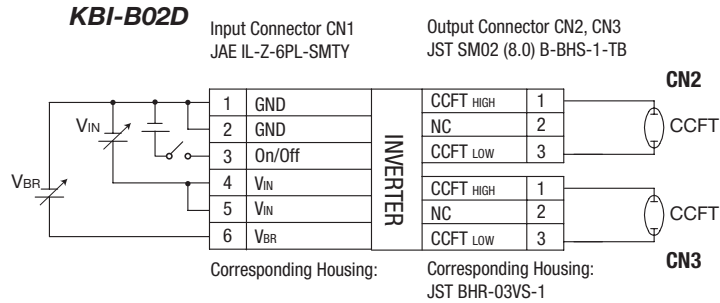
FM 32227

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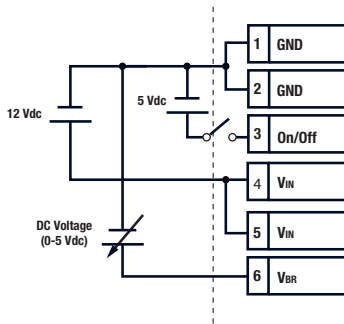
Tech Notes

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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