

ES3-WF2 Series

LED Lighting Board-to-Cable Connector

Connector Training Module

Application Examples

LED Lighting



ES3 Series (WF2 Type) Overview

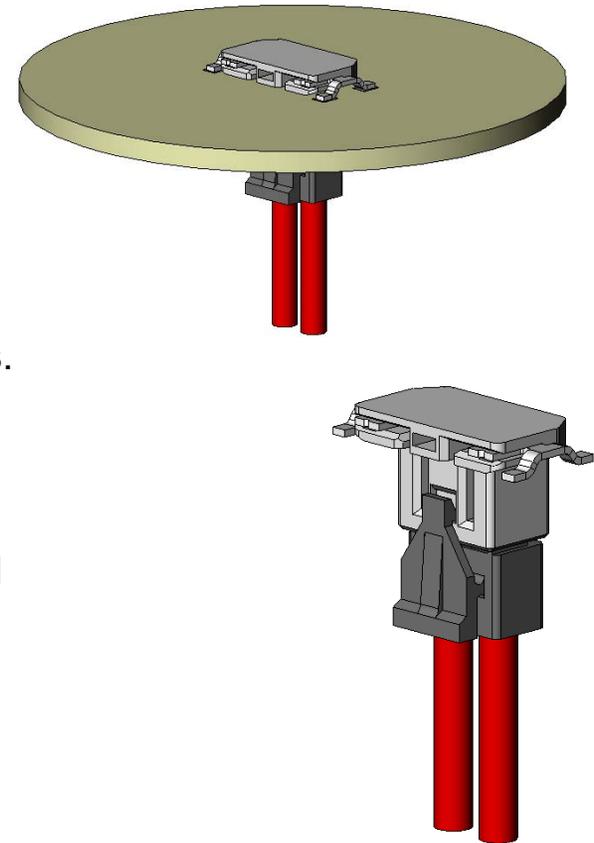
The ES3 series WF2 type is a 2-position, board-to-cable connector ideal for LED lighting devices such as LED light bulbs and down lights. It directly connects the converter board and the LED mounting board with the cable. The pin connector for the LED mounting board is available in embossed reel packaging for SMT automated mounting. The connector allows reflow solder mounting to the LED board to occur simultaneously with the other SMT components and LED's that are mounted.



ES3-WF2 Series Features

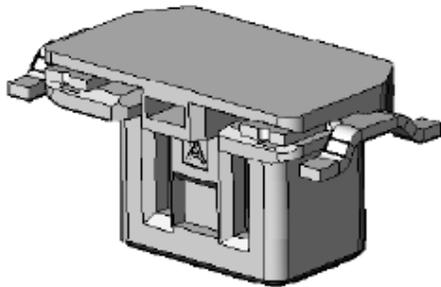
“Compact and Low-profile”

- Its low-profile 1.65mm mounting height prevents the interference of LED light emission
- Insulator for the pin connector uses white LCP with superior heat and light resistance ideal for the mounted environment.
- Board-to-Cable connection of LED mounting board and the convert board allows more flexibility of the component layouts.
- Secure mechanical lock resists vibration and pulling to prevent un-mating and incomplete mating.
- Our IL-Z series socket contact used is one of the most trusted and used by our customers.
- cULus certified: File No. E67741
- RoHS compliant

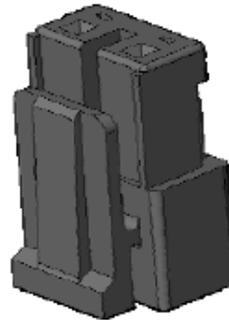


General Specifications

No. of Contacts	2 pos
Connector Insertion Force	15N Max
Contact resistance	30m Ω max (initial)
Insulation resistance	10m Ω min (after test)
Dielectric Withstanding Voltage	AC 2000 Vr.m.s (per minute)
Operating Temperature Range	-40 °C to +105 °C
Rated Current	AC, DC 2A
Rated Voltage	AC, DC 200V
Mating Durability	20 times
Applicable Wire	22 AWG to 26 AWG



Receptacle (ES3B002WF2)



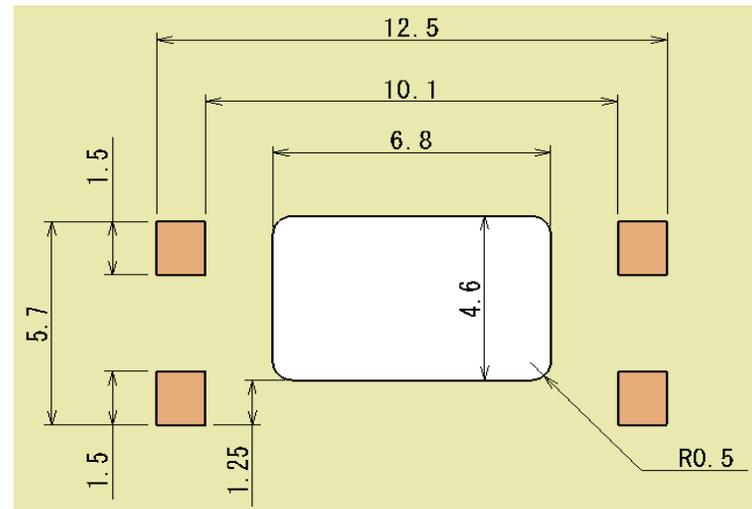
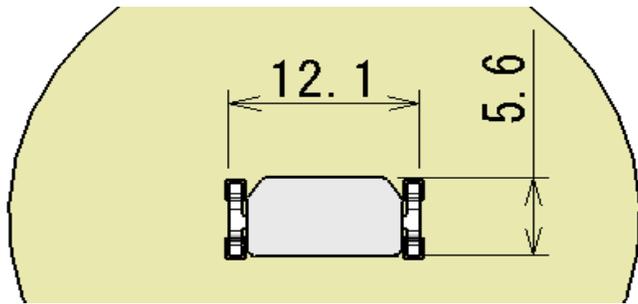
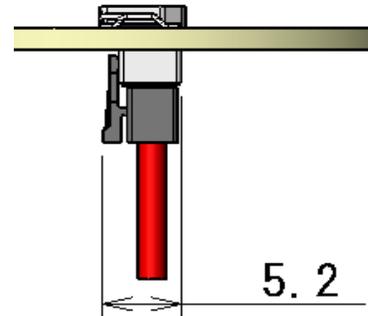
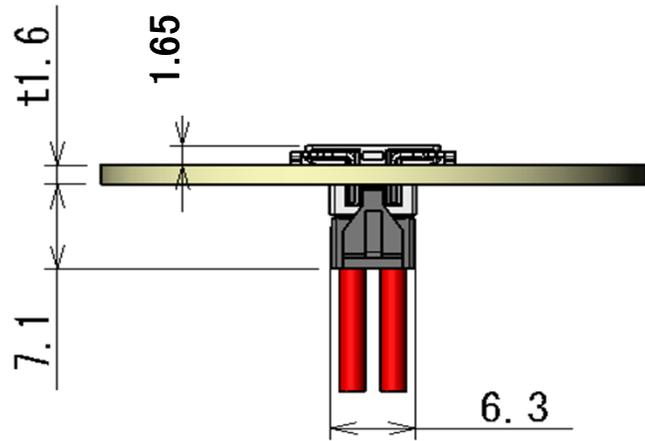
Plug (ES3S002SZA)



Contact (IL-Z-C1-A)

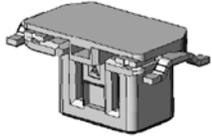
Basic Dimensions

Unit: mm



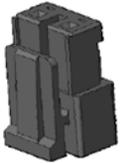
Materials and Finishes

ES3B002WF2



Component	Material and Finish
Insulator	White LCP
Contact	Copper alloy / Sn plating

ES3S002SZA



Component	Material and Finish
Socket	66 Nylon

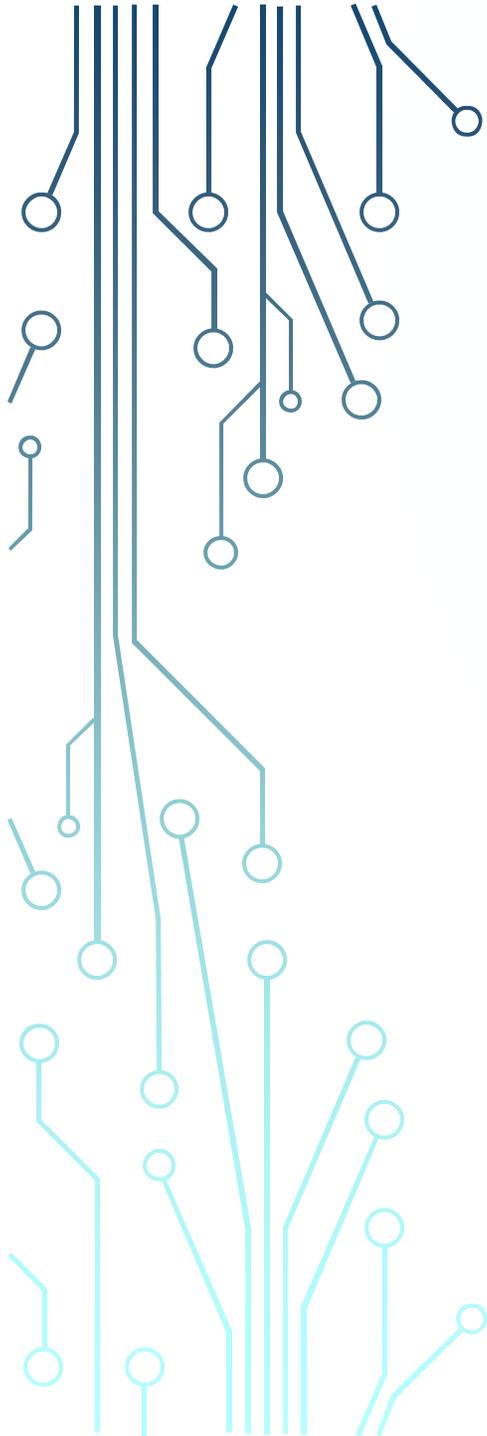
IL-Z-C1-A-7000



Component	Material and Finish
Socket Contact	Phosphor Bronze / Sn plating

Summary

- A 2-position, board-to-cable connector ideal for LED lighting devices
- Well-suited for applications including LED lighting, LCD TV backlight, and other compact devices
- Low-profile 1.65mm mounting height prevents the interference of LED light emission
- The insulator is made of white LCP for heat and light resistance
- Its cable-less connection reduces the number of parts needed for assembly
- cULus certified: File No. E67741



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