



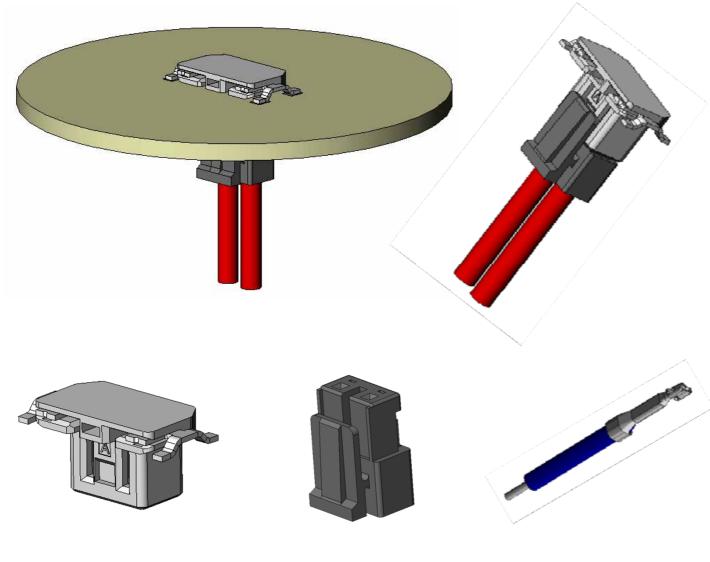
Board-to Cable Connector For LED Lighting Power Supply

ES3 Series (WF2 Type)

(cULus Certified Product)

CONNECTOR MB-0227-3 July 2012

RoHS Compliant



Receptacle (ES3B002WF2)

Plug (ES3S002SZA)

Contact (IL-Z-C1-A)

The ES3 Series is a 2-position board-to-cable connector that is ideal for LED lighting devices like LED light bulbs and downlights.

This connector enables direct connection of the converter board and the LED mounting board with a cable.

The pin connector for the LED mounting board is available in embossed reel packaging for SMT automated mounting. It allows reflow solder mounting to the LED mounting board to occur at the same time that other LED chips and SMT electrical parts are mounted.

Features

- Low-profile design (mounting height: 1.65mm) to prevent interference with emission of LED light.
- Insulator for 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 converter board allows for greater freedom in the layout of parts.
- Mechanical lock strongly resists vibration and pulling to prevent un-mating and incomplete mating.
- Uses the IL-Z Series socket contact, which has a long sales history.
- cULus Certification: File No. E67741

General Specifications

■No. of Contacts: 2 pos.

■Contact Resistance: 30m Ω max. (initial)

■ Dielectric Withstanding Voltage:

AC2000Vr.m.s per minute

■Mating Cycles: 20 times

■Connector Insertion Force: 15N max.

■Rated Current: AC, DC 2A

■Rated Voltage: AC, DC 200V

■Insulation Resistance: 10M Ω min. (after test)

■Operating Temperature:

-40 Deg. C to +105 Deg. C

■Applicable Wire: 22AWG to 26AWG

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

Ordering Information

ES3 B 002 W F 2 R****

Series

Connection Type

B: Sunk-into-the-board S: Socket Housing

No. of Contacts

Reel Part Number (Note 1)

Modification Code

Plating of Connection Area

F: Sn plating

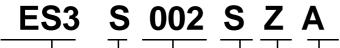
Z: No plating (Housing)

Attachment to Board

W: SMT straight type, without hold-down

S: Socket for cable crimp connection

Note1) An embossed tape reel contains 1,000 pieces.



Series

Connection Type

B: Sunk-into-the-board

S: Socket Housing

No. of Contacts

Modification Code

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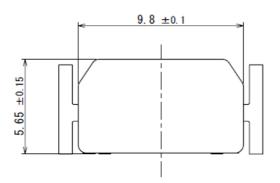
Part Number List

Туре	Part Number	Drawing No.
Pin Connector	ES3B002WF2	SJ111730
Socket Connector	ES3S002SZA	SJ111733
Contact	IL-Z-C1-A-7000	SJ026615

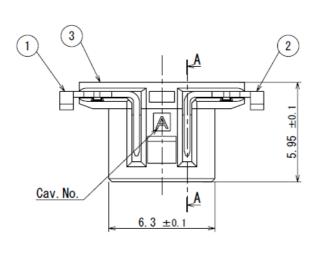
Product Drawing

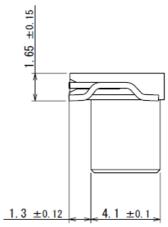
Part Number	ES3B002WF2	
Drawing No.	SJ111730	

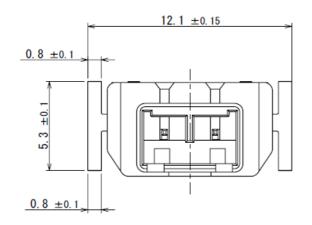
Unit: mm

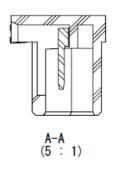


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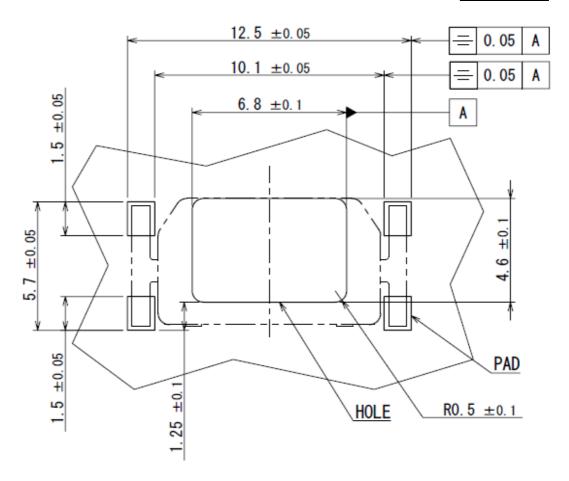




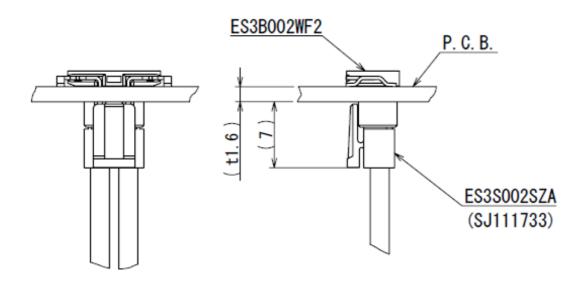


3	INSULATOR	1	LCP		COLOR: WHITE
2	CONTACT-R	1	COPPER ALLOY	LEAD-FREE TIN PLATING	
1	CONTACT-L	1	COPPER ALLOY	LEAD-FREE TIN PLATING	
符号 NO.	名 称 DESCRIPTION	伽 数 OTY.	材 料 MATERIAL	仕 上 FINISH	信 考 REMARKS

Unit: mm



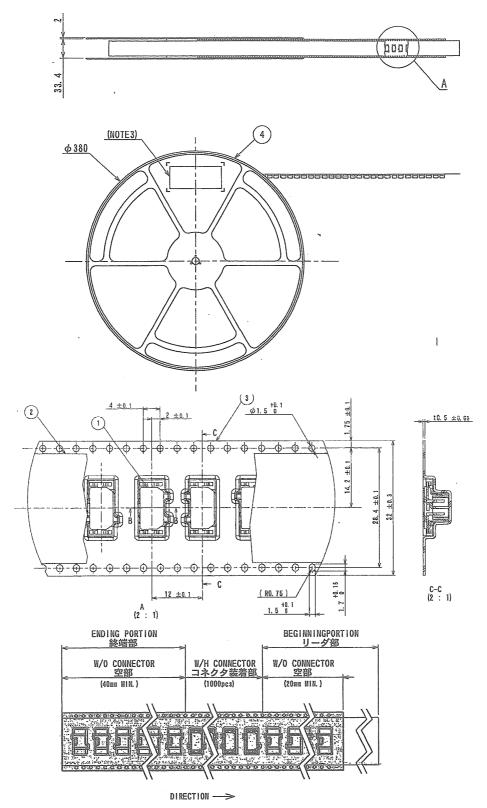
Applicable Board Dimensions (SMT side, for reference)



Drawing When Mated (for reference)

Part Number	ES3B002WF2R1000
Drawing No.	SJ111731

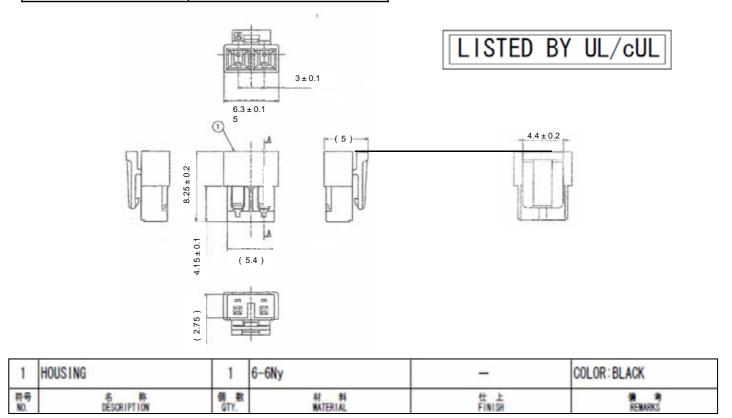
Unit: mm



4	REEL	1	POLYSTYRENE		
3	CARRIER TAPE	1	POLYSTYRENE		
2	COVER TAPE	1	POLYESTER		
1	CONNECTOR	1000			ES3B002WF2 (SJ111730)
符号	名 DESCRIPTION	個数	材料 MATERIAL	仕 上 FINISH	備 考 PEMARKS

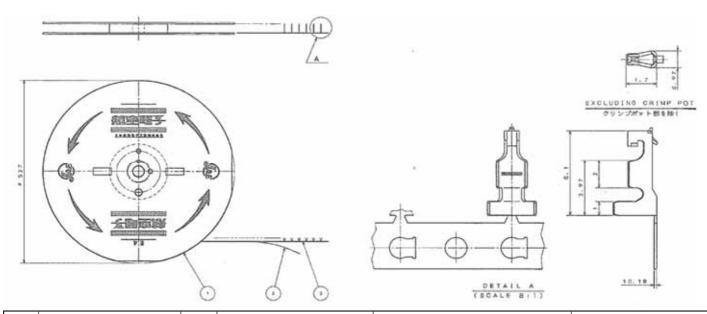
Part Number	ES3S002SZA
Drawing No.	SJ111733

Unit: mm



Part Number	IL-Z-C1-A-7000		
Drawing No.	SJ026615		

Unit: mm



3	SOCKET CONTACT	7000	PHOSFHOR BRONZE	TIN PLATING	TIN PLATING 1 µm min.
2	PAPER TAPE	1	PAPER		
1	MAGAGINE	1	PAPER		
ITEM 符 号	DESCRIPTION 名 称	Q 'T Y 個 数	MATERIAL 材 料	FINISH 仕 上	REMARKS 備 考

Crimping Tool

Cable Size	Hand Tool	Press	Semi Automatic Applicator
AWG22 to AWG26	CT150-4-ILZ1	CP215-5B	3502-ILZ1-2

Technical Bulletin

Specification	JACS-10804
Instruction Manual	JAHL-10804

Japan Aviation Electronics Industry, Limited

Notice: Products shown in this brochure are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information.

Recommended applications: Computers, Office machines, Measuring devices, Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.

^{*} The specifications in this brochure are subject to change without notice. Please contact JAE for information.