



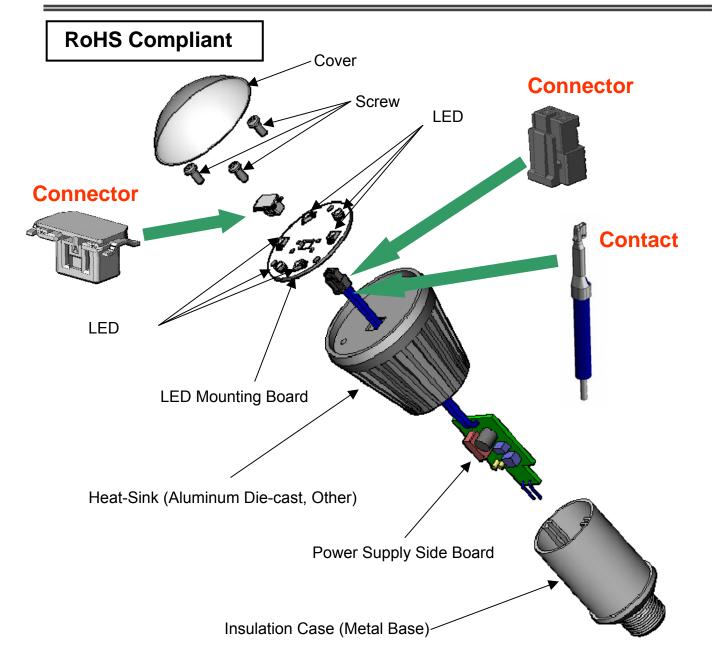
Board-to Cable Connector For LED Lighting Power Supply

# ES3 Series (WF2 Type)

CONNECTOR

MB-0227-1

September 2011



# **Drawing of LED Light Bulb Assembly (For Reference)**

The ES3 Series is a board-to-cable type, 2 position connector 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 connection 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.

## **General Specifications**

■No. of Contacts: 2 pos.

■Contact Resistance: 30mΩmax. (initial)

■Dielectric Withstanding Voltage:

AC2000Vr.m.s per minute

■Mating Cycles: 20 times

■Connector Insertion Force: 15N max.

■Rated Current: 2A

■Rated Voltage: AC, DC 200V

■Insulation Resistance: 10MΩmin. (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

# 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

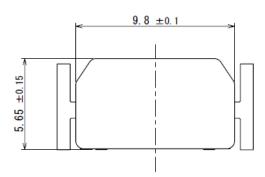
Note1) An embossed tape reel contains 1,000 pieces.

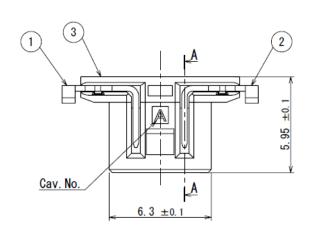
# Part Number List

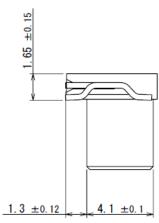
Туре	Part Number	Drawing No.
Pin Connector	ES3B002WF2	SJ111730
Socket Connector	ES3S002SZA	SJ111733
Contact	IL-Z-C1-A-7000	SJ026615

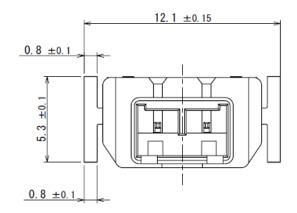
# **Product Drawing**

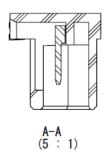
Part Number	ES3B002WF2
Drawing No.	SJ111730



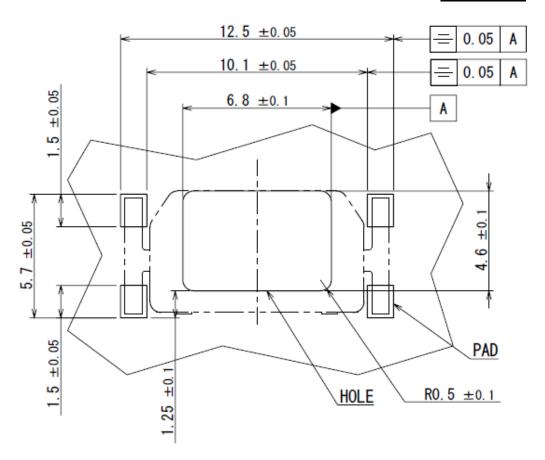




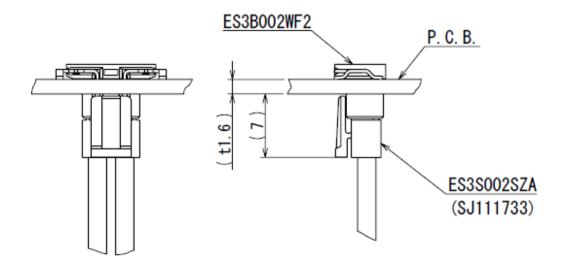




3	INSULATOR	1	LCP		COLOR: WHITE
2	CONTACT-R	1	COPPER ALLOY	LEAD-FREE TIN PLATING	
1	CONTACT-L	1	COPPER ALLOY	LEAD-FREE TIN PLATING	
符号 NO.	名 称 DESCRIPTION	個数 QTY.	材 料 MATERIAL	仕 上 FINISH	備 考 REMARKS

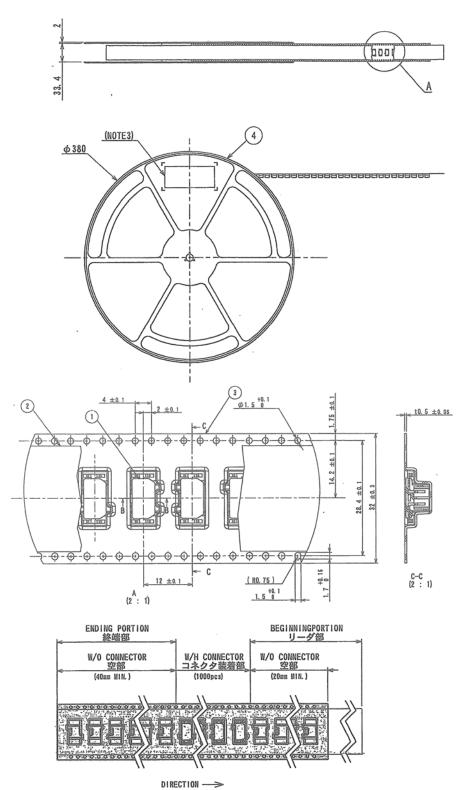


Applicable Board Dimensions (SMT Side) (For reference)



**Drawing When Mated (For reference)** 

Part Number ES3B002WF2R1000
Drawing No. SJ111731

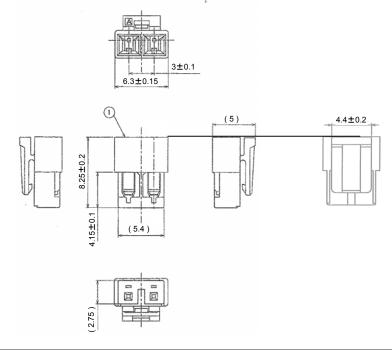


4	REEL	1	POLYSTYRENE		
3	CARRIER TAPE	1	POLYSTYRENE		
2	COVER TAPE	1	POLYESTER		
1	CONNECTOR	1000			ES3B002WF2 (SJ111730)
符号 NO.	名 称 DESCRIPTION	個数 QTY.	材 料 MATERIAL	仕 上 FINISH	備 考 REMARKS

Part Number ES3S002SZA

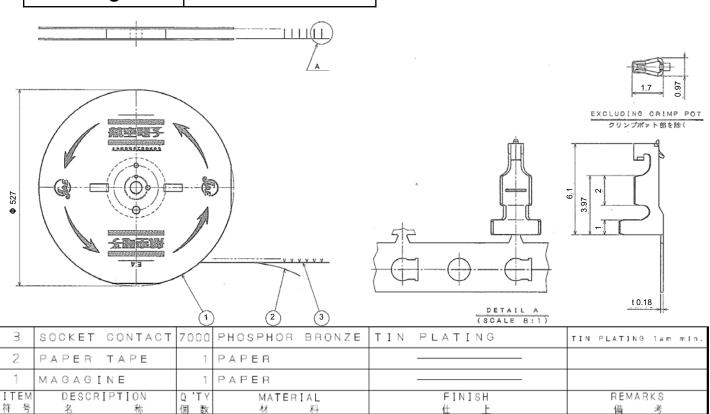
Drawing No. SJ111733

Unit: mm



1	HOUSING	1	6-6Ny	_	COLOR: BLACK
符号	名 称	個 数	材 料	仕上	(機 考)
NO.	DESCRIPTION	OTY.	MATERIAL	FINISH	REMARKS

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



# 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

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**Product Marketing Division** 

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