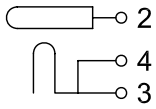
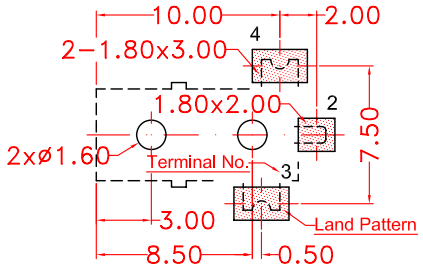
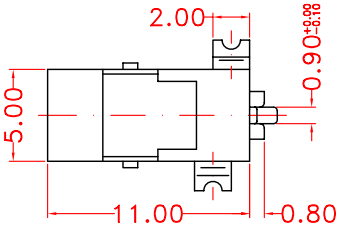
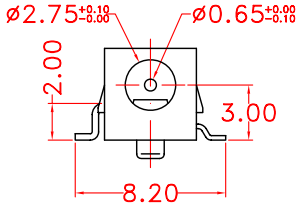


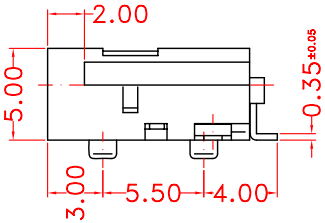
SCHEMATIC

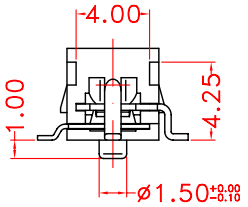


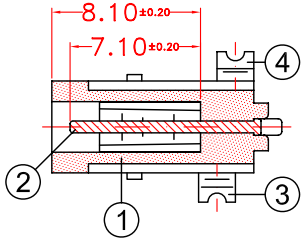
PIERCING PLAN



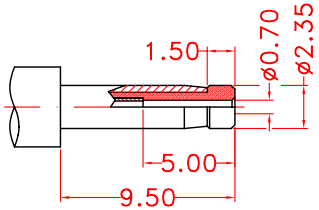




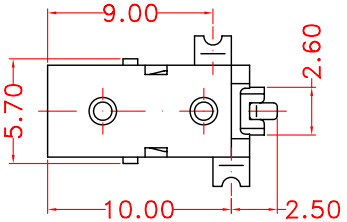




PARTS DETAIL



MATE PLUG



No.	PARTS	QTY.	MATERIAL	TREATMENT
4	SLEEVE BREAK	1	BRASS	Ag PLATED
3	SLEEVE SPRING	1	SPRING ALLOY	Ag PLATED
2	PIN SHAFT	1	P. BRONZE	Ag PLATED
1	HOUSING	1	PA9T	BLACK COLOR

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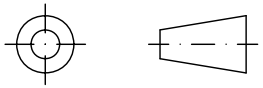


THE 3rd ANGLE PROJECTION

ALL DIMENSIONS TOLERANCE ARE IN ABOVE, UNLESS OTHERWISE SPECIFIED.

SCALE : 3.2:1.0	DESIGN BY : So Chung Choi	02-SEP-1999	DESCRIPTION : H=3.00mm SMD DC POWER JACK
UNIT : MILLIMETER (mm)	DRAWN BY : So Chung Choi	10-JUN-2011	MODEL NO. : DC-240-L01-00-TR
TOLERANCE : ±0.20	CHECKED BY :		CAD FILE : C:\JACK DRAWING\DC240L0100-TR
ANGLE TOL. : 0° 30'	APPROVED BY :		DRAWING FILE : D2K11056 A3

No.	DATE	REVISION	REVISED	APPROVED
1				

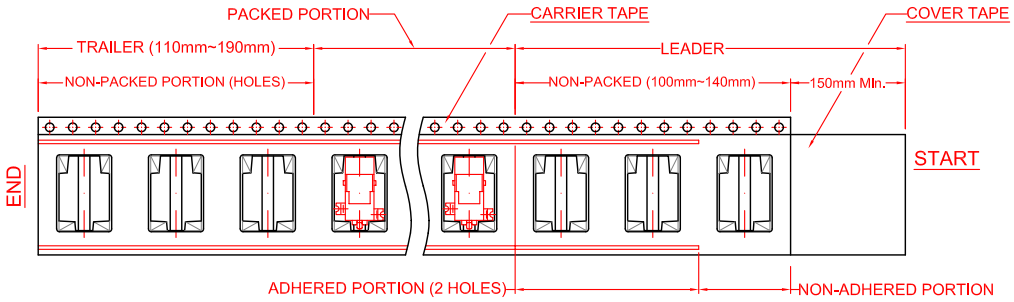
SPECIFICATION:

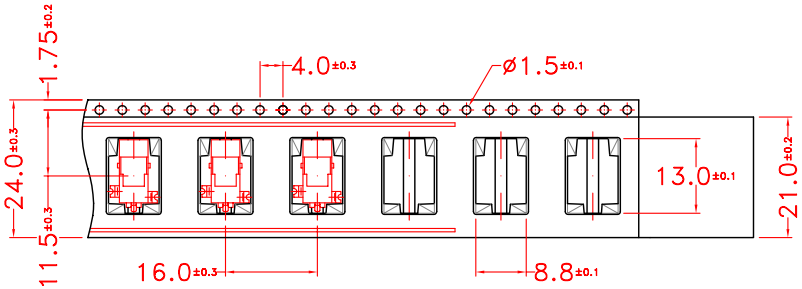
THE SPROCKET HOLES OF CARRIED TAPE SHALL BE ON THE RIGHT SIDE OF PULL DIRECTION.

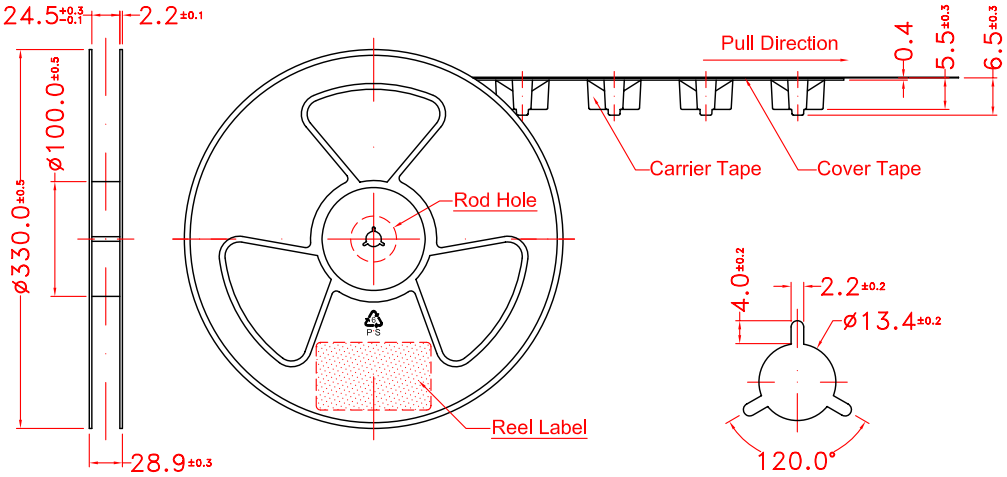
STORAGE CONDITION SHALL BE 20°C TO 50°C AND 85%R.H.
STORAGE IN HIGH TEMPERATURE AND HIGH HUMIDITY SHALL BE AVOIDED.

PACKING CONDITION SHALL BE 5 OF REELS CONTAIN IN 1 INNER BOX,
2 OF INNER BOX IN 1 OUTER CARTON.
THE QUANTITY OF EACH REEL ARE 600PCS.

DETAIL OF TRAILER AND LEADER OF TAPE SHALL BE AS FOLLOW.







REEL BODY (1:5)

ROD HOLE (1:1)

No.	PARTS	QTY.	MATERIAL	TREATMENT
3	COVER TAPE	1	POLYESTER	TRANSPRENT
2	CARRIER TAPE	600	POLYSTYLENE	TRANSPRENT
1	REEL BODY	1	POLYSTYLENE	BLUE COLOR

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THE 3rd ANGLE PROJECTION

ALL DIMENSIONS TOLERANCE ARE IN ABOVE, UNLESS OTHERWISE SPECIFIED.

SCALE : 1.0:1.0	DESIGN BY : So Chung Choi	16-FEB-2003	DESCRIPTION : Tape & Reel Packing of DC Power Jack
UNIT : MILLIMETRE (mm)	DRAWN BY : So Chung Choi	10-JUN-2011	MODEL No. : DC-240-L01-00-TR
TOLERANCE : ±0.20	CHECKED BY :		CAD FILE : C:\TAPE&REEL\DC240L0100-TR
ANGLE TOLERANCE : 1°30′	APPROVED BY :		DRAWING FILE : D2K11056 — A3

Product Specification

Model No.: DC-240-L01-00-TR

Description: H=3.00mm Horizontal SMD DC Power Jacks

Pin Shaft Diameter: ∅0.65mm

Packing Method: Tape & Reel (600pcs./R)

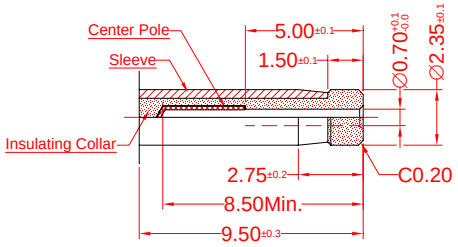
1. General

1a. Scope

The jacks should apply to DC low voltage.

1b. Gauge Plug

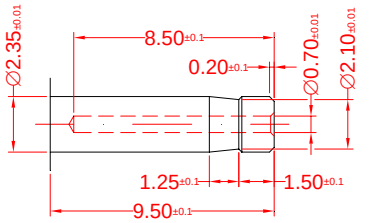
The gauge plug should be as shown in appendix fig. 2 or equivalent.



Mate Plug

Note

1. : Matt. part are insulation collar.
2. : Section part are sleeve contact.
3. : Net part are center pole contact.



Gauge Plug

Note

1. Roughness of the surface : 0.8s
2. Material : Standard dimension gauge
   Stainless steel (SUS) or alloy tool steel (SKS2)
   Insulated gauge
   Telfon (PETE) or Delrin (POM)

1c. Measurement Condition

All measurement should be done at room ambient temperature and relative humidity 45%-85%.

2. Electrical

2a. Rating

DC 3.15V, 2A.

2b. Dielectric Strength

AC 500V at 50-60Hz between insulated conductors for 1 minute, and there should be no breakdown of insulation.

Before test or initial minimum 100MΩ at DC 500V.

After humidity test minimum 50MΩ.

After heat test minimum 100MΩ.

After cold test minimum 100MΩ.

After soldering test minimum 100MΩ.

2d. Contact Resistance

Before test or initial maximum 30mΩ between terminals and 50mΩ between plug and terminal. Apply 1kHz, AC 50mA or less to measured.

Between Terminals	Between Plug and Terminal
After life test maximum 60mΩ.	After life test maximum 80mΩ.
After humidity test maximum 30mΩ.	After humidity test maximum 50mΩ.
After heat test maximum 30mΩ.	After heat test maximum 50mΩ.
After cold test maximum 30mΩ.	After cold test maximum 50mΩ.
After soldering test maximum 30mΩ.	After soldering test maximum 50mΩ.

3. Mechanical

3a. Dimensions

Please refer to the mechanical drawing for the shape and all dimension of the product.

3b. Insertion and Extraction Force

Force of the jacks should be measure with the Gauge Plug. At the conclusion of this test, the jacks shall comply with a value as specified.

Insertion Force	Extraction Force
Before test or initial Maximum 2.5kgf.	Before test or initial 0.3kgf to 2.5kgf.
After life test maximum 2.5kgf.	After life test 0.2kgf to 2.5kgf.
After humidity test maximum 2.5kgf.	After humidity test 0.3kgf to 2.5kgf.
After heat test maximum 2.5kgf.	After heat test 0.3kgf to 2.5kgf.
After cold test maximum 2.5kgf.	After cold test 0.3kgf to 2.5kgf.
After soldering test maximum 2.5kgf.	After soldering test 0.3kgf to 2.5kgf.

3c. Terminal Strength

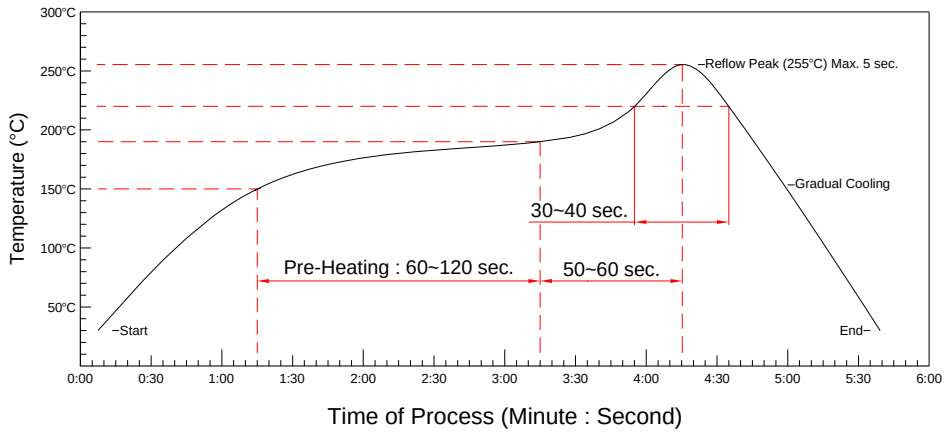
A static force of 500 grams being applied in any direction on the tip of the terminal for a period of 5 seconds. The jacks shall not evidence of mechanical damage, and no loosing the terminal except bending the terminal, causing electrical failure or damages to the extent of practical use.

4. Solderability

4a. Soldering Condition

The Jacks for Reflow Soldering

Lead-Free Reflow Soldering Temperature / Time Profile



Note :

Reflow soldering bath :
Infrared ray + hot air type.
Solder paste :
Senju Metal Industry
M705 (Sn-3.0Ag-0.5Cu)
Metal mask :
Thickness 0.2~0.25mm
Hole area = Land area X 100%
P.W.B. :
Thickness 0.7mm or more.

The Jacks for Hand Soldering

The terminal of jacks tested shall be heated to 2.0mm from a tip of the terminal by a soldering irons to have a capacity of 60 Watts consumption at a temperature controlled of 350°C ± 5°C for a period of 3 ± 0.5 seconds.

4b. Soldering Test

The terminal of jacks tested shall be dipped into soldering flux of GX-7 ASAHI CHEMICAL'S or equivalent for a period of 5 - 10 seconds to pre-flux and shall be immersed into molten solder of (Tin 63% and Lead 37%) or equivalent to 2.0mm ± 0.5mm from tip of terminal for dwell time of 3 ± 0.5 seconds. At the conclusion of this test, the tested area shall be covered more than 75% of immersed area with solder.

5. Environmental

5a. Humidity Test

The jacks shall be exposed in a humidity chamber at temperature of 40°C ± 2°C and at a relative humidity of 85% to 90% for 48 hours (2 days), and in normal room ambient condition for 30-60 minutes to stabilize measurement. At the conclusion of this test, the jacks shall comply with paragraphs 2a, 2b, 2c, 2d and 3b.

5b. Heat Test

The jacks shall be exposed in a heat chamber at temperature of 70°C ± 2°C and at a relative humidity of below 50% for a period of 48 hours (2 days), and in normal room ambient condition for 30-60 minutes to stabilize measurement. At the conclusion of this test, the jacks shall comply with paragraphs 2a, 2b, 2c, 2d and 3b.

5c. Cold Test

The jacks shall be exposed in a cold chamber at temperature of -40°C ± 2°C for a period of 48 hours (2 days), and in normal room ambient condition of 30-60 minutes to stabilize measurement. At the conclusion of this test, the jacks shall comply with paragraphs 2a, 2b, 2c, 2d and 3b.

6. Life Test

6a. Test Condition

Life test shall be done at (15 - 18 cycles / minute) Unloaded.

Before the test, apply contact grease to the sliding surface of the plug in order to prevent the part from over-heating and wearing due to friction.

6b. Life of Jacks

After 5,000 cycles of continuous insertion and extraction. At the conclusion of this test, the jacks shall comply with paragraphs 2a, 2b, 2c, 2d and 3b.

7. Precautions in Handling

Please take note of the following points

7a. Operating temperature and humidity range

Temperature: -25°C ~ 70°C / Humidity: 70% RH or less.

7b. Manual soldering conditions (by solder iron)

Bit temperature: 350°C ± 5°C

Solder iron: 3 ± 0.5 second

Load on terminal: approx. 0.5N (50g) or less.

7c. Storage

This jack is silvering or tinning plated. Therefore this jack should not be left with the package open. In case plating sulfurates soldering trouble or contact trouble will happen. The shelf-life remains 6 months under the formal condition.

7d. Washing

This jack shall not be washed. In case this jack is washed contact trouble will happen.

7e. Other necessary item

Please consult with Sun Rise before using the unit or performing tests under conditions other than those listed in these specifications.