

UNLESS OTHERWISE SPECIFIED, TOLERANCE ON DECIMAL: ± 0.3

LEAD FREE

6	NUT		1	H59(COPPER ALLOY)		Ni	PLATED
5	HOUSING		1	PBT 4815		UL-94V0	(BLACK)
4	AXIS SUPPORT		1	H59(COPPER ALLOY)		Ni	PLATED
3	SPRING PIECE		1	C5191		Ag	PLATED
2	SPRING PIECE		1	C5191		Ag	PLATED
1	PLAT PIECE		1	C2680		Ag	PLATED
LTR	PART NAME		QTY	MATERIAL		REMARK	
DWN	LILY	DATE	2013.10.29	3RD ANGLE PROJECTION	NAME MINIATURE JACK		
CHKD	ANDY	DATE	2013.10.29		CAT. NO.		
APVD	JON	DATE	2013.10.29		UNIT: mm PJD-035-01MD		
SWEETA PRODUCTS CORPORATION					DWN.NO. SHJ-3508A		
					001		

SWEETA PRODUCTS CORPORATION

SPECIFICATION

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MINIATURE JACK	SHJ-3508	DATE : 2013.04.24

SPECIFICATION

1. Standard atmospheric condition

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows :

Ambient temperature: 15°C to 35°C

Relative humidity : 45% to 80%

Air pressure : 86kPa to 106kPa

If there is any doubt about the results, measurements shall be made within the following limits :

Ambient temperature: 20 ±1°C

Relative humidity : 60% to 70%

Air pressure : 86kPa to 106kPa

Operating temperature range: -25°C to 70°C

Storage temperature range : -25°C to 70°C

2. Electrical characteristics:

	Item	Condition		Specifications
1	Rated voltage Rated current			DC 12V 1A
2	Contact resistance	Measurement shall be made at with small current 1000 Hz (1A MAX.)		30mΩ MAX.
3	Insulation resistance	A voltage of 500V DC shall be applied for 1 minute after which measurement shall be made.	Between the conductors which should not make contact under normal conditions. Between each terminal and insulated metal part.	100MΩ MIN.

ISSUE	DATE	WRTN	CHKD	APVD	DESCRIPTIONS
	2013.04.24	JON	JON	ELVIS	

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SPECIFICATION

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	Item	Condition		Specifications
4	Dielectric strength	500V AC (50 Hz to 60 Hz) for 1 minute. Trip current : 2mA	Between the conductors which should not make contact under normal conditions.	Without damage to parts, arcing or breakdown, etc.
			Between each terminal and insulated metal part.	

3. Mechanical characteristics

	Item	Condition		Specifications
1	Operating force	Insertion and withdrawal force shall be measured after inserting and withdrawing 3 times by using a gauge of standard dimensions.		
		Insertion force		4N~30N（0.4kgf~3.0kgf）
		Withdrawal force		3N~30N（0.3kgf~3.0kgf）
2	Contact pressure	Contact pressure during the make contact shall be measured in the operation by using the minimum dimensional gauge.	The contact pressure between chip, ring, sleeve and the contact piece.	1N（100gf）MIN.
			The contact pressure with the make contact.	
		The contact pressure during the break contact shall be measured under the normal conditions.		

4. Endurance characteristics

	Item	Condition	Specifications
1	Soldering heat test	The terminal for a printed circuit board: Temperature of solder: 260 \pm 5℃ Dip time: 5 \pm 1 seconds The terminal for a lead wire: Temperature of solder: 350 \pm 10℃ Dip time: 3 \pm 1 seconds	Electrical and mechanical Characteristics shall be Satisfied, and not show remarkable failure.

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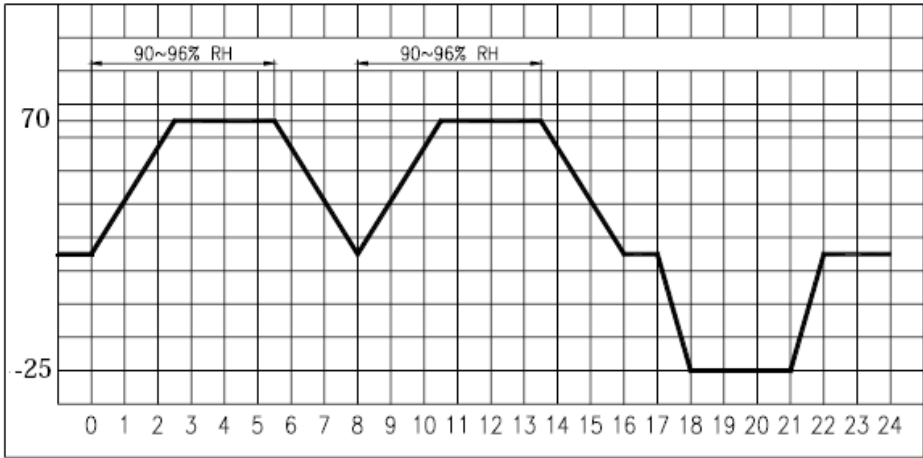
SPECIFICATION

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	Item	Condition	Specifications
2	Cold	The jack shall be stored for 96 hours at a temperature of $-25\pm 3^{\circ}\text{C}$ immediately after which measurement shall be made.	Dimensional requirements shall be satisfied. Electrical and mechanical characteristics shall be satisfied.
		Insertion force	3N~30N (0.3kgf~3.0kgf)
		Withdrawal force	
3	Dry heat	The jack shall be stored for 96 hours at a temperature of $70\pm 2^{\circ}\text{C}$ immediately after which measurement shall be made.	Dimensional requirements shall be satisfied. Electrical and mechanical characteristics shall be satisfied.
		Insertion force	3N~30N (0.3kgf~3.0kgf)
		Withdrawal force	
4	Humidity test	Temperature : $40^{\circ}\text{C}\pm 2^{\circ}\text{C}$ Relative humidity : 90% ~95% for 96 hours after testing jack shall be left alone for 30 minutes in a room ambient.	Dimensional requirements shall be satisfied. Electrical and mechanical characteristics shall be satisfied.
		Contact resistance	50m Ω MAX.
		Insulation resistance	50M Ω MIN.
		Contact pressure	0.5N (50gf) MIN.
		Insertion force	3N~30N (0.3kgf~3.0kgf)
		Withdrawal force	
5	Operating endurance	Jack shall withstand 5000 cycles inserting and withdrawing shall be made by the following mating plug or standard dimension gauge, at a speed of 10 to 30 times / min.	Dimensional requirements shall be satisfied. Electrical and mechanical characteristics shall be satisfied.
		Insertion force /Withdrawal force	0.5N (50 gf) .
		Contact resistance	Each closed contact 60m Ω MAX.
			Between plug and contact 100m Ω MAX.
6	Soldering test	Temperature of solder : $245^{\circ}\text{C}\pm 5^{\circ}\text{C}$ Time of tip : 3 ± 0.5 seconds Length of dip : $2\pm 0.5\text{mm}$ (from top of terminal) To the balance point time : 3 seconds	A new uniform of solder shall cover a minimum of 95% of the surface being immersed.

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	Item	Condition	Specifications
7	Composite temperature/humidity cyclic test	<p>The pin jack shall be subjected to the conditions as shown in below, and then shall be returned and allowed to remain in room ambient condition for 30 minutes.</p>  <p style="text-align: center;">(4 cycles)</p>	Electrical and mechanical Characteristics shall be Satisfied.
8	Salt spray test	<p>This connector shall be subjected to a fine mist of salt solution at a temperature of $35\pm 2^{\circ}\text{C}$ for 16 hours continuously (salt solution concentration $5\pm 1\%$ by weight)</p>	There should be no rusty on the surface of this connector.

5. Warning :

Miniature jack shall be dipped, warning to inferior contact by flux and transform mold.

Resistance to flux : It shall be prevention between PCB and housing.

Transform mold : It must not add direct heat to miniature jack.

Temperature of solder : 265°C MAX.

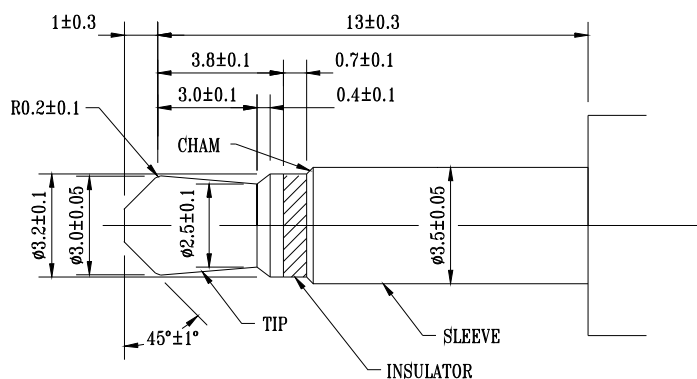
Preheat temperature : 90°C MAX.

Preheat time : 1 minute MAX.

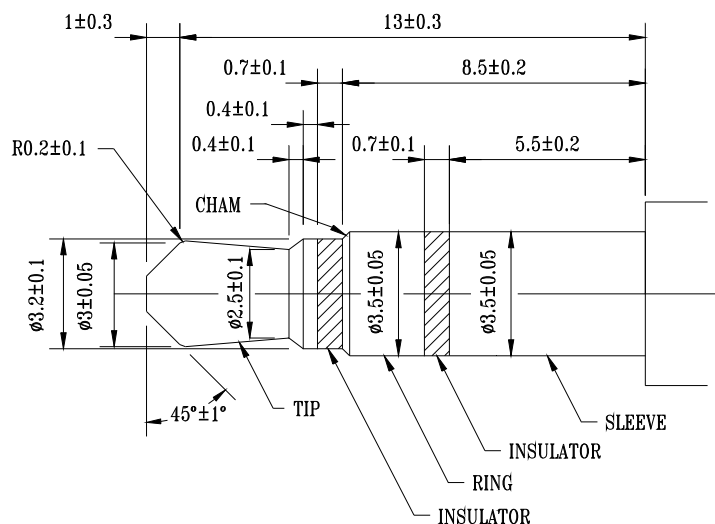
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SPECIFICATION

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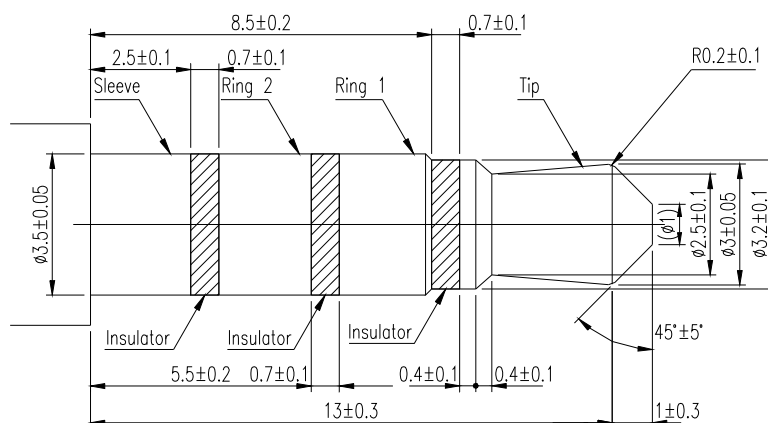
6. Mating plug dimension



2 Conductors Type



3 Conductors Type



4 Conductors Type