

CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
		DC-470 ϕ 2.0	DC POWER JACK	A

1、 GENERAL

1.1 APPLICATION

This specification is applied to the requirements for DC JACK

1.2 Operating Temperature Range

-20°C~70°C (Normal humidity, normal air pressure)

1.3 Test Conditions

Unless otherwise specified, tests and measurement shall be made in the following standard conditions:

Normal temperature.....15°C~35°C

Normal humidity.....relative humidity25%~80%

Normal air pressure.....86KPa~106Kpa

If any doubt arise from the judgment, tests shall be conducted at the following conditions:

Temperature.....20°C±2°C

Relative humidity.....65%±5%

Ambient pressure.....86KPa~106Kpa

2、 Detailed specification

2.1 Appearance: There should be no defects that affect the serviceability of product.

2.2 Style and dimension: shall conform to the assemble drawings.

2.3 Type of actuating: DC feedback

2.4 Ratings: 30V DC, 3.5A (effective value)

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3. ELECTRICAL SPECIFICATION :

ITEM	TEST CONDITIONS	REQUIREMENTS
3.1	Contact Resistance 5V DC 10mA or more than 1KHZ AC small-current contact resistance meter	$\leq 30m\Omega$
3.2	Insulation Resistance Measurement shall be made following application of 500V DC potential, across terminals, and across terminals and cover, for one minute	$\geq 100M\Omega$
3.3	Dielectric voltage proof 500V AC (50HZ or 60HZ) shall be applied across	There should be no breakdown and

4. MECHANICAL SPECIFICATION

4.1	Perating force	Using a dynamometer measurement force between the plug and the shrapnel	3~30 N
4.2	Robustness of terminal	The 500 g static load is applied to the top of the terminal for 1 minutes ,	No obvious damage

5. Durability Characteristics

5.1	Solderability	The top of the terminal is immersed in the solder pool 2mm deep, temperature $230\pm 5^{\circ}C$ during 3 ± 0.5 seconds.	More than 90% of the immersed surface will be covered with tin
5.2	Solder Heat Resistance	Soldering temperature : $350\pm 10^{\circ}C$; Soldering length: $2\pm 0.5mm$ Continue time: 3 ± 0.5 S	Can be reach the mechanical and electrical
5.3	Heat resistance	Jack test shall be stored at a temperature $85\pm 2^{\circ}C$ for 48 hours, and at standard atmospheric condition for 30 minutes then to test it	1、 contact resistance $50M\Omega$ or more 2、 insulation resistance $50 M\Omega$ or more No indication of damage to mechanical and electrical properties
5.4	Moisture resistance	At a temperature 89%RH for 48 hours, and at standard atmospheric condition for 30 minutes then to test it	
5.5	Resistance to low temperature	At a temperature $-40\pm 2^{\circ}C$ for 48 hours, and at standard atmosphere condition for 30 minutes Then to test it	
5.6	Operation life	Plug the socket 2500 times with a matching plug with a frequency of 10~30 times per minute	Operation force 3-30N Contact resistance $\leq 100m\Omega$

6. Attention:

6.1、 When DC power socket dip, to prevent the solder resist and the transformation caused by poor contact

6.2、 Solder resist: shall be prevent the solder resist to PCB and case

6.3、 Can not direct heating of the DC power

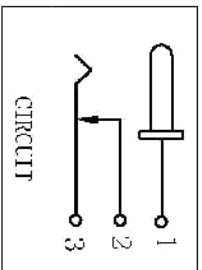
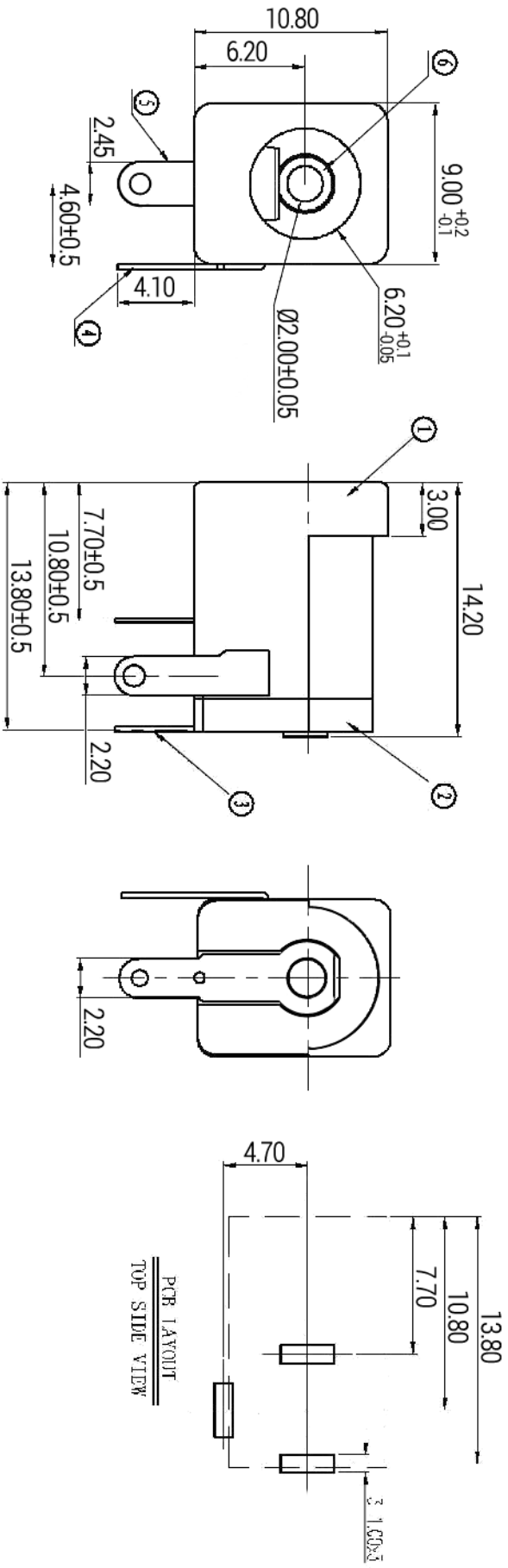
6.4、 Solder Temperature: $\leq 255^{\circ}C$

6.5、 Preheating Temperature: $\leq 90^{\circ}C$;

6.6、 Preheating time : 2 minutes max;

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成品图



REV.	ECN NO.	LOCATIONS.	DESCRIPTION	DATE	CHANGER

DRAWN		CHECKED	APP'D	SERIES	DC JACK	DC JACK	ANGLE	PROJECTION:	⑥	⑤	④	③	②	①	NO.	PART NAME	MATERIAL	QTY	FINISH/COLOR	
				NEW PART NO.	DC-470	DC-470	±3°													
				PART NO.			±0.2													
				DRAW NO.			±0.3													
VERSION: A1	PAGE: 1/1	SCALE: 3:1	UNIT: mm	DATE:																



PCB LAYOUT
TOP SIDE VIEW