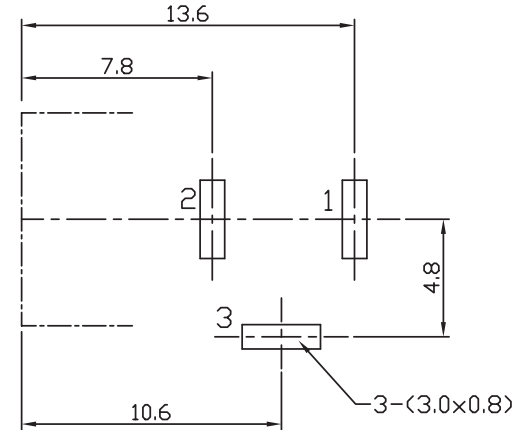
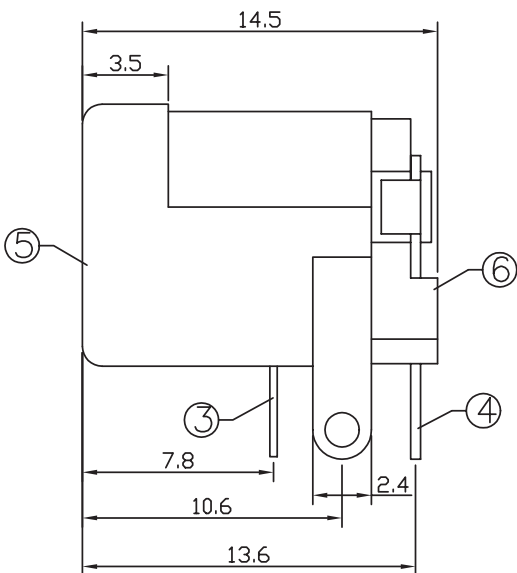
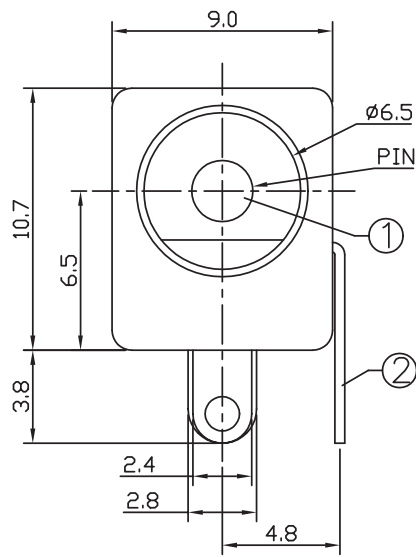


REV	DESCRIPTION	DATE
A	Initial Release	06.03.23



T:1.6 Dimensions of PC board holes
Tolerance : ±0.1(Printed-top view)

PART. NO.	PIN	SCHEMATIC
DJ-020-04A	φ2.0	
DJ-020-04B	φ2.5	
DJ-020-04C	φ1.65	
DJ-020-04D	φ2.35	

LEAD FREE

LTR	PART NAME	QTY	MATERIAL	REMARK
6	COVER	1	PBT 4815	UL-94V0(BLACK)
5	HOUSING	1	PBT 4815	UL-94V0(BLACK)
4	FLAT PIECE	1	C2680 t=0.4	MB:Cu Sn PLATED
3	SPRING	1	C5191 t=0.3	MB:Cu Sn PLATED
2	CURVE PIECE	1	C2680 t=0.4	MB:Cu Sn PLATED
1	PIN	1	C2680	MB:Cu Ni PLATED

UNLESS OTHERWISE SPECIFIED, TOLERANCE ON DECIMAL: ±0.3

PANSTRONG COMPANY LTD.				DRAWN BY		TOMMY	
				CHECKED			
TITLE:		DC POWER JACK				APPROVED	
PART NO:		DJ-020-04X				DRAW NO	
File Number:							
SCALE	None	REV	A	UNIT	mm		

SPECIFICATION

TITLE DC POWER JACK	SPC. NO.	PAGE : 1 OF 3 DATE : 2006.07.29
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1.Scope

This specification applies to unified polarity type DC jack used in electronic equipment.
For DC input use.

2.Standard atmospheric conditions

Unless otherwise specified. The standard range of atmospheric condition for making measurements and tests are as follows :

Ambient temperature : 15°C to 35°C

Relative humidity : 25% to 80%

Air pressure : 86kPa to 106kPa

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

Ambient temperature : 20±2°C

Relative humidity : 60% to 70%

Air pressure : 86kPa to 106kPa

3.Mechanical characteristics

	Item	Conditions	Specification
1	Insertion force	Measurement shall be made after insertion and withdrawal using standard plug gauge 3 times.	2.94 29.4N (0.3 3kgf)
2	Withdrawal force	Measurement shall be made after insertion and withdrawal using standard plug gauge 3 times.	

ISSUE	DATE	WRTN	CHKD	APVD	DESCRIPTIONS
	2003/1/3	WANG	ZHU	ZHU	

SPECIFICATION

TITLE DC POWER JACK	SPC. NO.	PAGE 2 OF 3 DATE 2006.07.29
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4. Electrical characteristics

	Item	Conditions	Specification
1	Rating		DC 12V 3.5A
2	Contact resistance	1K Hz Measured at small current (1A or less)	30 m or less
3	Insulation resistance	A voltage of 500V DC shall be applied for a minute. Between conductors which should not make contact under normal conditions after which measurement shall be made.	100M MIN.
4	Dielectric strength	Between conductors which should not make contact under normal conditions. 500V AC 50 to 60Hz for 1 min.(trip current 2mA)	Without distinct damage.

5. Endurance characteristics

	Item	Conditions	Specification
1	Solderability	The terminals shall be dipped into soldering flux, and shall be immersed into molten solder of 230 5 for a period 3 0.5 seconds.	A new uniform coating of solder shall cover a minimum of 95% of the surface being immersed.
2	Resistance to soldering heat	Solder temperature 350 10 Immersion depth 2 0.5mm Immersion time 3 0.5 seconds By a soldering iron to have a capacity of 60 watts.	Electrical and mechanical characteristics shall be satisfied.
3	Cold	The jack shall be stored at a temperature of -40 2 for 96 hours. And then it shall be subjected to the controlled recovery conditions for 0.5 hours after which measurement shall be made.	Electrical and mechanical characteristics shall be satisfied.
4	Dry heat	The jack shall be stored at a temperature of 70 2 for 96 hours. And then it shall be subjected to the controlled recovery conditions for 0.5 hours after which measurement shall be made.	There shall be not show remarkable failure.
5	Humidity	The Pin Jack shall be subject to 90 ~95%RH, 40 2 for 96 hours, and shall then be conditioned at room ambient conditions for a period of 30 minutes.	Electrical and mechanical characteristics shall be satisfied. Insulation resistance 30M MIN. Contact resistance 50m MAX.

SPECIFICATION

TITLE DC POWER JACK	SPC. NO.	PAGE : 3 OF 3 DATE : 2006.07.29
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	Item	Conditions	Specification
6	Life test	Insertion and withdrawal shall be made with the mating plugs and jacks for 5000 cycles at a speed of 10~30 cycles/min.	Insertion force : 29.4N MAX (3Kgf) Withdrawal force : 1.96 ~ 29.4N (0.2 ~ 3kgf) Contact resistance : Between plug and contact : 100 MΩ MAX. Each closed contact : 60 MΩ MAX.

6.Warning:

Dc power 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 Dc power jack

Temperature of solder : 255°C MAX.

Preheat temperature : 90°C MAX.

Preheat time : 2 minute MAX.