SPECIFICATION

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DC POWER JACK		ACK	DC_020_30E		20_30B	DATE :	2013.04.08		
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 Operating temperature range: -25°C to 85°C Storage temperature range: -25°C to 70°C 3.Mechanical characteristics									
	It	tem	С	onditions		Specification			
1	Measu Insertion force inserti		Aeasurement shall be made after nsertion and withdrawal using tandard plug gauge 3 times.			2.94∼29.4N (0.3∼3kgf)			
2	2 Withdrawal force insertion		feasurement sl nsertion and w tandard plug g	ithdrawal usi	ng				
ISSUE		DATE	WRTN	CHKD	APVD	Dł	ESCRIPTIO	ONS	
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4. Electrical characteristics

	Item	Conditions	Specification				
1	Rating			DC 24V , 3A			
2	Contact resistance	1K Hz Measured at small current (1A or less)	$30 \text{ m}\Omega$ or less				
3	Insulation resistance	A voltage of 500V DC shall be applied for a minut conductors which should not make contact under n conditions after which measurement shall be made	100M Ω MIN.				
4	Dielectric strength	Between conductors which should not make contact normal conditions. 500V AC (50 to 60Hz) for 1 min.(trip current 2		Without distinct damage.			
5.	Endurance cha	racteristics					
	Item	Conditions		Specification			
1	Solderability	and shall be immersed into molten solder of 230 co		A new uniform coating of solder shall cover a minimum of 95% of the surface being immersed.			
2		The terminal for a printed circuit board : Temperature of solder : $260 \pm 5^{\circ}C$ Dip time : 5 ± 1 seconds The terminal for a lead wire : Temperature of solder : $350 \pm 10^{\circ}C$ Dip time : 3 ± 1 seconds	Electrical and mechanical characteristics shall be satisfied.				
3	Cold	The jack shall be stored at a temperature of $-40^{\circ}C \pm 2^{\circ}C$ for 96 hours. And then it shall be subjected to the controlled recovery conditions for Electric		nd mechanical tics shall be satisfied.			
4	Dry heat	The jack shall be stored at a temperature of 70° C $\pm 2^{\circ}$ C 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 shal failure.	l be not show remarkable			
5	Humidity	$0^{\circ}C \pm 2^{\circ}C$ for 96 hours, and shall then be char onditioned at room ambient conditions for a Insu		and mechanical tics shall be satisfied. resistance : $50M\Omega$ MIN. sistance : $50m\Omega$ MAX.			

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	Item	Conditions	Specification	
6			Insertion force : 29.4N MAX (3Kgf)	
			Withdrawal force : $2.94 \sim 29.4$ N	
	Life test	Insertion and withdrawal shall be made with	(0.3~3kgf)	
		the mating plugs and jacks for 5000 cycles at	Contact resistance :	
		a speed of 10~30 cycles/min.	Between plug and contact $: 100 \text{m}\Omega$	
			MAX.	
			Each closed contact : $60m\Omega$ 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 $: 255^{\circ}C$ MAX.

Preheat temperature $: 90^{\circ}$ C MAX.

Preheat time : 2 minute MAX.

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DC POWER JACK