

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD											
RATING	Operating Temperature Range		-55℃ to +105℃ (Note1)			Storage Temperature Range		-10℃ to +60℃ (Note3)			
	Operating Humidity Range		20% to 80% (Note2)			Storage Humidity Range		40% to 70% (Note3)			
	Applicable Connector		DF51K-*(D)S-2C (###)			Voltage		250V AC/DC			
	Applicable Cable		AWG#30			Current	AWG 30 : 0.5A				
	Insulation Diameter		φ 0.8 mm								
SPECIFICATIONS											
ITEM		TEST METHOD				REQUIREMENTS			QT	AT	
CONSTRUCTION											
General Examination		Visually and by measuring instrument.				According to drawing.			o	o	
Marking		Confirmed visually.							o	o	
ELECTRICAL CHARACTERISTICS											
Contact Resistance		20mV MAX, 1mA (DC or 1000Hz).				30 mΩ MAX.			o	-	
Millivolt Level Method											
MECHANICAL CHARACTERISTICS											
Mechanical Operation (Sn Plating)		30 times insertion and extraction.				①Contact resistance: 30mΩ MAX ②No damage, crack or looseness of parts.			o	-	
Mechanical Operation (Au Plating)		50 times insertion and extraction.				①Contact resistance: 30mΩ MAX ②No damage, crack or looseness of parts.			o	-	
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.				①No electrical discontinuity of 1 μ s. ②No damage, crack or looseness of parts.			o	-	
Shock		Acceleration 490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.							o	-	
ENVIRONMENTAL CHARACTERISTICS											
Damp Heat (Steady State)		Exposed at 40 ± 2 °C , humidity 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)				①Contact resistance: 30 mΩ MAX. ②No damage, crack or looseness of parts.			o	-	
Rapid Change of Temperature		Temperature -55 °C→ +105 °C Time 30min→ 30min Under 5 Cycles. (The transferring time of the tank is 2 to 3 MIN) (After leaving the room temperature for 1 to 2h.)				①Contact resistance: 30 mΩ MAX. ②No damage, crack or looseness of parts.			o	-	
Remarks Note 1: Include the temperature rising by current. Note 2: No condensing Note 3: Apply to the condition of long term storage for unused products before pcb on board, after pcb board , operating temperature and humidity range is applied for interim storage during transportation.											
					DRAWN KIM. Y. H 18.10.02	DESIGNED KIM. Y. H 18.10.02	CHECKED LIM. S. M 18.10.02	APPROVED LIM. S. M 18.10.02	RELEASED ENG 20. 02. 13 DEPT		
Unless otherwise specified, refer to IEC 60512.											
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST											
HIROSE KOREA CO.,LTD.			SPECIFICATION SHEET				PART NO. DF51K-30SCA (800)				
CODE NO.(OLD) CL		DRAWING NO. ELC4-611517			CODE NO. CL 6652-0070-4-800					1 1	