

	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#-30DP-2DSA/DS (###)			Voltage		250V AC/DC			
	Applicable Contact		DF51K-22SC(A)/SCF(A) (###) DF51K-2428SC(A)/SCF(A) (###) DF51K-30SC(A)/SCF(A) (###)			Current		AWG 30: 0.5A AWG 28: 1A AWG 26: 1.5A AWG 22-24: 2A			
SPECIFICATIONS											
ITEM		TEST METHOD				REQUIREMENTS			QT	AT	
CONSTRUCTION											
General Examination		Visually and by measuring instrument.				According to drawing.			0	0	
Marking		Confirmed visually.							0	0	
ELECTRICAL CHARACTERISTICS											
Contact Resistance		20mV MAX, 1mA (DC or 1000Hz).				30 mΩ MAX.			0	-	
Millivolt Level Method											
Insulation Resistance		500 V DC.				1,000 MΩ MIN.			0	-	
Voltage Proof		650 V AC for 1 min.				No flashover or breakdown.			0	-	
MECHANICAL CHARACTERISTICS											
Mechanical Operation (Sn Plating)		30 times insertion and extraction.				①Contact resistance: 30mΩ MAX ②No damage, crack or looseness of parts.			0	-	
Mechanical Operation (Au Plating)		50 times insertion and extraction.				①Contact resistance: 30mΩ MAX ②No damage, crack or looseness of parts.			0	-	
Mating and unmating Force (Sn Plating)		It takes out and inserts with a conformity connector.				①Insertion Force: 128.2N MAX ②Extraction Force: 7.7N MIN			0	-	
Mating and unmating Force (Au Plating)		It takes out and inserts with a conformity connector.				①Insertion Force: 81.2N MAX ②Extraction Force: 7.5N MIN			0	-	
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.			0	-	
Shock		Acceleration 490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.							0	-	
Contact extraction force		Pull out the cable after housing fixation.				11.8N MIN			0	-	
ENVIRONMENTAL CHARACTERISTICS											
Damp Heat (Steady State)		Exposed at 40 ± 2 ℃ , humidity 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)				①Contact resistance: 30 mΩ MAX. ②Insulation resistance: 500MΩ MIN. ③No damage, crack or looseness of parts.			0	-	
Rapid Change of Temperature		Temperature -55 ℃ → +105 ℃ 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. ②Insulation resistance: 1,000MΩ MIN. ③No damage, crack or looseness of parts.			0	-	
Dry Heat		Exposed at 105±2 ℃, 96h							0	-	
Cold		Exposed at -55±3 ℃, 96h							0	-	
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 J.S CHOI 17.12.22	DESIGNED J.S CHOI 17.12.22	CHECKED S.M.LIM 17.12.22	APPROVED T.S KANG 17.12.22	RELEASED <div>ENG 20.02.13 DEPT</div>		
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-30DS-2C (800)				
CODE NO.(OLD) CL		DRAWING NO. ELC4-632490			CODE NO. CL 6652-0038-1-800			1 1			