	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
△						△					

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	ϕ0.8 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 Millivolt Level Method	20mV MAX, 1mA (DC or 1000Hz).	30 mΩ MAX.	o	−
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 μs. ②No damage, crack or looseness of parts.	o	−
Shock	Acceleration 490 m/s^2 duration of pulse 11 ms at 3 times for 3 directions.		o	−
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. ②No damage, crack or looseness of parts.	o	−
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. 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	DESIGNED	CHECKED	APPROVED	RELEASED
	KIM. Y. H	KIM. Y. H	LIM. S. M	LIM. S. M	ENG
	18.10.02	18.10.02	18.10.02	18.10.02	20. 02. 13
Unless otherwise specified, refer to IEC 60512.					DEPT

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO. DF51K-30SC (800)

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4-611514	CL 6652-0067-0-800	1/1

F-1-021(Rev.0)

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