


Jul.1.2020 Copyright 2020 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
△						△					
APPLICABLE STANDARD											
RATING	Operating Temperature Range	-55°C to +105°C (Note1)				Storage Temperature Range	-10°C to +60°C (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#22				Current	AWG 22 : 2A				
	Insulation Diameter	φ 1.2 ~ φ 1.45 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 ² 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	DESIGNED	CHECKED	APPROVED	RELEASED		
					J.S CHOI	J.S CHOI	S.M.LIM	T.S KANG			
					17.12.22	17.12.22	17.12.22	17.12.22			
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-22SCFA (800)			
CODE NO.(OLD)			DRAWING NO.			CODE NO.			1		
CL			ELC4-611496			CL 6652-0043-1-800			1		