

Applicable standard						
Rating 	Operating Temperature Range	-55 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	DF51A-28DP-2DSA/DS(##) DF51-28DEP-2C(##)	Current		AWG 22 to 24 : 2.0A AWG 26 : 1.5A AWG 28 : 1.0A AWG 30 : 0.5A	
	Applicable Contact	DF11-22SC(A)/SCF(A) DF11-2428SC(A)/SCF(A) DF11-30SC(A)/SCF(A)				
	Voltage	250 V AC/DC				
			UL • C-UL Rating	Voltage	30V AC/DC	
				Current	AWG 22 : 2.0A AWG 24 to 28 : 1.0A AWG 30 : 0.5A	
Specifications						
Item		Test method		Requirements	QT AT	
Construction						
General Examination		Visually and by measuring instrument.		According to drawing.	X X	
Marking		Confirmed visually.			X X	
Electric Characteristics 						
Insulation Resistance		500 V DC.		1000 MΩ MIN.	X —	
Voltage Proof		650 V AC for 1 min.		No flashover or breakdown.	X —	
Mechanical Characteristics						
Mechanical Operation (Sn Plating)		30 times insertion and extraction.		No damage, crack or looseness of parts. 	X —	
Mechanical Operation (Au Plating)		50 times insertion and extraction.			X —	
Mating and unmating Force (Sn Plating)		It takes out and inserts with a conformity connector.		1.Insertion Force : 120.2N MAX. 2.Extraction Force : 7.2N MIN.	X —	
Mating and unmating Force (Au Plating)		It takes out and inserts with a conformity connector.		1.Insertion Force : 76.9N MAX. 2.Extraction Force : 7.0N MIN.	X —	
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.		No damage, crack or looseness of parts. 	X —	
Shock		Acceleration 490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.			X —	
Contact extraction force		Pull out the cable after housing fixation.		11.8N MIN	X —	
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.)		1.Insulation resistance: 500 MΩ MIN.  2.No damage, crack or looseness of parts.	X —	
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.)		1.Insulation resistance: 1000 MΩ MIN.  2.No damage, crack or looseness of parts.	X —	
Dry Heat		Exposed at 105±2°C, 96h			X —	
Cold		Exposed at -55±3°C, 96h			X —	
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 mount on pcb, After mounted on pcb, operating temperature and humidity range is applied for interim storage during transportation.						
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
	6	DIS-H-00004486	TS. MIYAKI	SZ. ONO	20181212	
Unless otherwise specified, refer to IEC 60512.			APPROVED	HS. OKAWA	20160707	
			CHECKED	YN. TAKASHITA	20160707	
			DESIGNED	TT. OHSAKO	20160707	
			DRAWN	TT. OHSAKO	20160707	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-362066-00	
	SPECIFICATION SHEET		PART NO.	DF51-28DS-2C		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL543-5042-7-00	 1/1	