

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)	
	Voltage	250 V AC/DC	UL • C-UL Rating	Voltage	30 V AC/DC
	Current	AWG 22 to 26 : 2.0A AWG 28 : 1.0A AWG 30 : 0.5A		Current	2.0A
			Applicable Connector	DF51-4S-2C	
			Applicable Contact	DF11-****SC(F)A(##)	
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					
Contact Resistance Millivolt Level Method	20mV MAX, 1mA (DC or 1000Hz).		30 mΩ MAX.	X	—
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	50 times insertion and extraction.		1.Contact resistance: 30 mΩ MAX. 2.No damage, crack or looseness of parts.	X	—
Mating and unmating force	It takes out and inserts with a conformity connector.		1.Insertion Force :21.7 N MAX. 2.Extraction Force :1.0 N MIN.	X	—
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.		1.No electrical discontinuity of 1 μ s. 2.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	—
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.Contact resistance: 30 mΩ MAX. 2.Insulation resistance: 500 MΩ MIN. 3.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.Contact resistance: 30 mΩ MAX. 2.Insulation resistance: 1000 MΩ MIN. 3.No damage, crack or looseness of parts.	X	—
Dry Heat	Exposed at 105 ± 2°C, 96h		1.Contact resistance: 30 mΩ MAX. 2.Insulation resistance: 1000 MΩ MIN. 3.No damage, crack or looseness of parts.	X	—
Cold	Exposed at -55 ± 3°C, 96h		1.Contact resistance: 30 mΩ MAX. 2.Insulation resistance: 1000 MΩ MIN. 3.No damage, crack or looseness of parts.	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
	2	DIS-H-00005285	TS. MIYAKI	HS. OKAWA	20190918
Unless otherwise specified, refer to IEC 60512.			APPROVED	HS. OKAWA	20180402
			CHECKED	ST. WADA	20180402
			DESIGNED	TH. SATO	20180402
			DRAWN	TH. SATO	20180402
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-363916-01-00
	SPECIFICATION SHEET		PART NO.	DF51A-4P-2DSA (01)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL543-5107-0-01	1/2

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