

Applicable standard					
Rating	Operating temperature range	-40 °C to +85°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	100V AC/DC	Applicable connector	DF52#-*P-0.8C	
	Current	2.5 A	Using cable	UL1571 , AWG28	
			Insulation diameter	φ 0.58mm	
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).	10 mΩ MAX.	X	—
Mechanical characteristics					
Mechanical operation		20 times insertion and extraction.	①Contact resistance: 20 mΩ MAX. ②No damage, crack or looseness of parts.	X	—
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.	X	—
Shock		490 m/s ² duration of pulse 11 ms at 3 times each for 3 both axial directions.	①No electrical discontinuity of 1 μ s. ②No damage, crack or looseness of parts.	X	—
Environmental characteristics					
Damp heat (Steady state)		Exposed at 40 ± 2°C , 90 to 95 %, 96 h. (After leaving the room temperature for 1-2h.)	①Contact resistance: 20 mΩ MAX. ②No damage, crack or looseness of parts.	X	—
Rapid change of temperature		Temperature -55°C→ +85°C Time 30min→ 30min Under 5 cycles. (The transferring time of the tank is 2-3 min) (After leaving the room temperature for 1-2h.)	①Contact resistance: 20 mΩ MAX. ②No damage, crack or looseness of parts.	X	—
Remarks					
Note 1:Including 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 on board, operating temperature and humidity range is applied for interim storage during transportation.					
	Count	Description of revisions	Designed	Checked	Date
2	1	DIS-H-00001640	TS. KUMAZAWA	TS. FUKUSHIMA	16. 05. 19
Unless otherwise specified, refer to IEC 60512.			Approved	KI. AKIYAMA	15. 11. 16
			Checked	TS. FUKUSHIMA	15. 11. 16
			Designed	TS. KUMAZAWA	15. 11. 16
			Drawn	MI. SAKIMURA	15. 11. 16
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.		ELC-366938-00-00
HRS	Specification sheet		Part No.	DF52-2832PF1571-28A9-300 2	
	Hirose electric co., Ltd.		Code No.	CL668-9001-0-00	1/1