





Applicable standard					
Rating	Operating temperature range 	-40 °C TO +105°C (NOTE1)	Storage Temperature range		Storage Temperature range
	Operating humidity range	20% TO 80% (NOTE2)	Storage humidity range		Storage humidity range
	Applicable connector	DF59-2P-2FC(**) DF59-2P-2C DF59-2P-2SP(**)	Current		Current
			Voltage	Voltage	AC/DC 230V
UL/C-UL				AC/DC 29.9V	
			TÜV	TBD	
Specifications					
Item		Item		Item	
Construction					
General examination		Visually and by measuring instrument.		According to drawing.	
Marking		Confirmed visually.		X	X
Electric characteristics					
Contact resistance		DC6V MAX, 100mA. (DC or 1000Hz).		50mΩ MAX.(DF59-2P-2FC(**)/2SP(**)) 30mΩ MAX.(DF59-2P-2C)	X —
Insulation resistance		500V DC.		1000MΩ MIN.	X —
Voltage proof		650V AC FOR 1 min.		No flashover or breakdown.	X —
Mechanical characteristics					
Mechanical operation		30 times insertion and extraction.(DF59-2P-2FC/2C) 10 times insertion and extraction.(DF59-2P-2SP)		①50mΩ MAX.(DF59-2P-2FC(**)/2SP(**)) 30mΩ MAX.(DF59-2P-2C) ②No damage, crack or looseness of parts.	X —
Vibration		Frequency 10 to 55Hz, single amplitude 0.75mm, at 10cycles for 3direction.		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 for 3 directions.			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.)		①50mΩ MAX.(DF59-2P-2FC(**)/2SP(**)) 30mΩ MAX.(DF59-2P-2C)	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.)		②INSULATION RESISTANCE: 1000MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X —
Resistance to soldering heat		1)Reflow soldering Number of reflow cycles : 2cycles max. «Reflow area» Duration above 220°C, 60sec. Max. Peak temperature: 250°C, 10sec. Max. «Pre-heat area» Pre-heat temperature:150°C to 180°C Pre-heat time:90sec.to 120sec. 2) Manual soldering Soldering iron temperature :350±10°C, Soldering time : 3sec. No strength on contact.		No deformation of case of excessive looseness of the terminals.	X —
Solderability		Soldering temperature : 245°C Duration of immersion :soldering, for 5sec.		New uniform coating of solder shall cover minimum of 95% of the surface being immersed.	X —
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 mounted on PCB. After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation.					
	Count	Description of revisions	Designed	Checked	Date
	1	DIS-H-00002838	TS. KUMAZAWA	TS. FUKUSHIMA	17. 05. 30
Remarks			Approved	KI. AKIYAMA	10. 10. 20
			Checked	OM. MIYAMOTO	10. 10. 20
			Designed	KT. ISHII	10. 10. 20
			Drawn	KT. ISHII	10. 10. 20
Unless otherwise specified, refer to IEC60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.		ELC-330575-51-01
	Specification sheet		Part no.	DF59-2S-2V (51)	
	Hirose electric co., ltd.		Code no.	CL667-0001-0-51	 1/1