

Applicable standard				
Rating	Operating temperature range	-40 °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	DF62#-24S-2.2C(**)	Voltage	250V AC/DC
	UL, C-UL Rating	Voltage	29.9V AC/DC	Current
Current		2.5A	AWG #24 : 2.0A/pin	
Operating temperature range		-35°C~75°C (Note1)	AWG #26 to 30 : 1.0A/pin	

### Specifications

Item	Test method	Requirements	QT	AT
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#### Construction

General examination	Visually and by measuring instrument.	According to drawing.	X	X
Marking	Confirmed visually.		X	X

#### Electric characteristics

Contact resistance	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	30 times insertion and extraction.	①Contact resistance: 30 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 μs. ②No damage, crack or looseness of parts.	X	-
Shock	490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times each for 3 both axial directions.	①No electrical discontinuity of 1 μs. 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: 30 mΩ MAX. ②Insulation resistance: 1000 MΩ MIN. ③No 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: 30 mΩ MAX. ②Insulation resistance: 1000 MΩ MIN. ③No damage, crack or looseness of parts.	X	-
Resistance to Soldering heat	1)Solder bath method Soldered at solder temperature, 260°C for in immersion , duration, 10 s. 2)Manual soldering Soldering iron temperature :300°C, Soldering time :3s. No strength on contact.	No deformation of case of excessive looseness of the terminals.	X	-
Solderability	Soldered at solder temperature, 245°C for in immersion , duration, 5 s.	A new uniform coating of solder shall cover minimum of 95 % of the surface being immersed.	X	-

#### Remarks

Note 1: Include the temperature rising by current.  
Note 2: No condensing.  
Note 3: Apply to unused product on packaged condition.

Count	Description of revisions	Designed	Checked	Date
0				
		Approved	SJ. OKAMURA	20211026
		Checked	SZ. ONO	20211025
		Designed	SS. YAMASAKI	20211025
		Drawn	SS. YAMASAKI	20211025

Unless otherwise specified, refer to IEC 60512.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	Drawing no.	ELC-362876-01-00
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<b>HRS</b>	Specification sheet	Part no.	DF62-24P-2. 2DSA (01)	
	Hirose electric co., ltd.	Code no.	CL0544-0584-0-01	△ 1/1