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 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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	250V AC/DC \triangle	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 ² 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
\triangle 1	DIS-H-00019309	RI. GENDA	SZ. ONO	20231023
		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.	ELG-362876-01-00
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HRS	Specification sheet	Part no.	DF62-24P-2. 2DSA (01)	
	Hirose electric co., ltd.	Code no.	CL0544-0584-0-01	\triangle 1/1