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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	-35°C to +85°C(Notes 1)	Storage temperature range	-10°C to +60°C(Note3)
	Operating humidity range	20 % to 80 % (Notes 2)	Storage humidity range	40 % to 70 %(Note3)
	Voltage	150 V AC (DC)	Current	1 A
	Applicable Connector	DF13-*DS-1.25C	Applicable Contact	DF13(G)-2630SCFA(**) DF13-3032SCFA(**)
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	100 m A (DC or 1000 Hz).	30 mΩ MAX.	X	—
Insulation resistance	100 V DC.	500 MΩ MIN.	X	—
Voltage proof	500 V AC for 1 min.	No flashover or breakdown.	X	—
Mechanical characteristics				
Mechanical operation	50 times insertions and extractions.	① Contact resistance: 30 mΩ MAX. ② No damage, crack or looseness of parts.	X	—
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 2 h, for 3 directions.	① No electrical discontinuity of 1μs. ② No 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				
Rapid change of temperature	Temperature -55→ 15 to 35→+85→ 15 to 35 °c Time 30→ 2 to 3 → 30→ 2 to 3 min. Under 5 cycles.	① Contact resistance: 30mΩ MAX. ② Insulation resistance: 500 MΩ MIN. ③ No damage, crack or looseness of parts.	X	—
Damp heat (Steady state)	Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.		X	—
Resistance to soldering heat	1) Reflow soldering « Reflow area » 250°C MAX 10 sec MAX 230°C MIN 60 sec MAX « Preheating area » 170°C to 190°C 60 sec to 120 sec Put through in reflow furnace twice, leave in ambient temperature and humidity for 1 hour. 2) Manual soldering Soldering iron temperature :300°C, Soldering time : 3sec. No strength on contact.	No deformation of case of excessive looseness of the terminals.	X	—
Solderability	Soldered at solder temperature, 245°C for insertion duration, 3sec.	Solder shall cover a 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 the condition of long term storage for unused products before mounted on PCB. After mounted on PCB , operating temperature and humidity range is applied for interim storage during transportation.				
Unless otherwise specifid , refer to IEC 60512.				
Count	Description of revisions	Designed	Checked	Date
△				
		Approved	HS. OKAWA	18. 02. 15
		Checked	TS. FUKUSHIMA	18. 02. 15
		Designed	TO. KUROMATSU	18. 02. 15
		Drawn	TO. KUROMATSU	18. 02. 15
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.	ELC-367983-93-00	
HRS	Specification sheet	Part no.	DF13E-*DP-1. 25V (93)	
	Hirose electric co., ltd.	Code no.	CL536	△ 1/1