Feb.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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/pin
	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	AC 20mV, 1mA (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 △1	Temperature -55°C→ +85°C Time 30min→ 30min Under 5 Cycles. (The transferring time of the tank is 2 to 3 MIN)	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℃ MAX 10 sec MAX 230℃ MIN 60 sec MAX ≪Preheating area≫ 170℃ to 190℃ 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℃, 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.

	Count	Description of revisions	Designed	Checked	Date
△1	1	DIS-H-00009653	HT. SATO	SZ. ONO	20210608

Unless otherwise specified, refer to IEC 60512.			
	Approved	HS. OKAWA	20200313
	Checked	TS. KUMAZAWA	20200313
	Designed	HK. HAYASHI	20200313
	Drawn	DS. HIROWATARI	20200306

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	Drawing no.	ELC-367982-52-00	
HRS Specification sheet	Part no.	DF13EA-*DP-1.25V(52)	
Hirose electric co., ltd.	Code no.	CL536	△1 1/1

FORM HD0011-2-1