




Applicable standard					
Rating	Operating temperature range	-35 °C to +85 °C(Note 1)	Storage temperature range	-10 °C to +60 °C(Note3)	
	Operating humidity range	20 % to 80 % (Note 2)	Storage humidity range	40 % to 70 %(Note3)	
	Current	1 A	Voltage	150 V AC(DC)	
Specifications					
Item	Test method	Requirements	QT	AT	
<b>Construction</b>					
General examination	Visually and by measuring instrument.	According to drawing.	X	X	
Marking	Confirmed visually.		X	X	
<b>Electric characteristics</b>					
Contact resistance	100 mA (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	—	
<b>Mechanical characteristics</b>					
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 1 μs. 2) No damage, crack or looseness of parts.	X	—	
Shock	490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.		X	—	
<b>Environmental characteristics</b>					
Rapid change of temperature	Temperature -55→ 5 to 35→+85→ 5 to 35 °C Time 30→ 5 max → 30→ 5 max min Under 5 cycles.	1) Contact resistance: 30 mΩ 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» Max250 °C within 10 sec Min 230 °C within 60 sec «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. Connector temperature to be ambient for second reflow. 2) Manual soldering Soldering iron temperature: 350±5 °C, Soldering time: 5±1 sec. No strength on contact.	No deformation of case of excessive looseness of the terminals.	X	—	
Solderability	Soldered at solder temperature, 235±5 °C for insertion duration, 3 sec.	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 pcb on board, after pcb on board, operating temperature and humidity range is applied for interim storage during transportation.					
Unless otherwise specified, refer to IEC 60512.					
	Count	Description of revisions	Designed	Checked	Date
			Approved	HS. OKAWA	16. 05. 30
			Checked	TS. FUKUSHIMA	16. 05. 30
			Designed	HT. SATO	16. 05. 30
			Drawn	HK. HAYASHI	16. 05. 30
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.		ELC-160525-83-00
	Specification sheet		Part no.	DF14A-25P-1. 25H (83)	
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