Applicable standard					
Rating	Operating temperature range	-30°C to + 85°C(Note 1)	Storage temperature range		-10°C to + 60°C(Note 2)
	Operating humidity range	40% to + 80%	Storage humidity range		40% to + 70%(Note 2)
	Voltage	250V AC	UL・CSA Rating	Voltage	30V AC
	Current	AWG 22 to 24 : 3A AWG 26 : 2A AWG 28 : 1A		Current △2	AWG 24 : 3A AWG 26 : 2A AWG 28 : 1A (Note4)

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	100mA (DC or 1000 Hz).	30mΩ MAX.	X	—
Insulation resistance	500V DC.	1000MΩ MIN.	X	—
Voltage proof	650V AC for 1 min.	No flashover or breakdown.	X	—
Mechanical characteristics				
Mechanical operation	50 times insertions and extractions.	① Contact resistance: 30mΩ 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.	① No electrical discontinuity of 1μs. ② No damage, crack or looseness of parts.	X	–
Environmental characteristics				
Rapid change of temperature	Temperature -55→5 to 35→+85 →5 to 35 °c Time 30→5 to 15→ 30 →5 to15 min Under 5 cycles.	① Contact resistance: 30mΩ MAX. ② Insulation resistance: 1000MΩ MIN. ③ No damage, crack or looseness of parts.	X	–
Damp heat (Steady state)	Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.	① Contact resistance: 30mΩ MAX. ② Insulation resistance: 500MΩ MIN. ③ No damage, crack or looseness of parts.	X	–

	Count	Description of revisions	Designed	Checked	Date
△2	2	DIS-H-00001155	MI.SAKIMURA	TS.FUKUSHIMA	15.12.04

Approved	KJ.KATAYOSE	05.01.05
Checked	KI.AKIYAMA	05.01.05
Designed	TH.ARAI	05.01.05
Drawn	TH.ARAI	05.01.05

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

Drawing no. ELC-305938-51-13

HRS	Specification sheet	Part no.	DF3DZ-*P-2V(51)
	Hirose electric co., ltd.	Code no.	CL543 △2 1/2

FORM HD0011-2-1

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
Resistance to soldering heat	1) Automatic soldering (reflow) (note3) 《Reflow area》 Max 250℃ 10sec max. Min 230℃ 60sec max. 《Preheating area》 150 to 180 90 to 120 s. Qut through in refrow fumace twice. Feave in ambient temperature and humidity for 1 hour. Connector temperature to be ambient for second reflow. 2) Manual soldering Soldering iron temperature :290±10℃, Soldering time :3s. No strength on contact.	No deformation of case of excessive looseness of the terminals.	X	–
Solderability	Soldering temperature :230 ℃ Soldering time :3s.	A new uniform coating of solder shall cover minimum of 95 % of the surface being immersed.	X	–

Remarks

Note 1:Including the temperature rise by current.

Note 2:Apply to the condition of long term storage for unused products before pcb on board , after pcb board , operating temperature and humidity range is applied for interm storage during transportation.

Note 3:The temperature profile shall be applied within 168 hours after opening moisture-proof packaging.when 168 hours passed after opening,applay the bottom requirements.

《Reflow area》

Max 240℃ 10sec max.

Min 230℃ 60sec max.

《Preheating area》

150 to 180℃ 90 to 120s

Note 4:Apply to crimping contact type. △2

Unless otherwise specified , refer to IEC 60512.