

Applicable standard						
Rating	Operating temperature range	-30°C to + 85°C(Note 1)	Storage temperature range	$\triangle$	-10°C to + 60°C(Note 3)	
	Operating humidity range	$\triangle$ 40% to + 80%(Note 2)	Storage humidity range	$\triangle$	40% to + 70%(Note 3)	
	Voltage	250V AC/DC	Applicable Connector	$\triangle$	DF3-2S-2C(##) DF3-2S-2DSA(##)	
	Current	$\triangle$ AWG 22 : 4A AWG 24 : 3A AWG 26 : 2A AWG 28 : 1A	UL·CSA Rating	$\triangle$ Voltage Current	30V AC/DC AWG 24 : 3A AWG 26 : 2A AWG 28 : 1A	
<b>Specifications</b>						
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	100mA (DC or 1000Hz).		30m $\Omega$ MAX.		X -	
Insulation resistance	500V DC.		1000M $\Omega$ MIN.		X -	
Voltage proof	650V AC for 1 min.		No flashover or breakdown.		X -	
<b>Mechanical characteristics</b>						
Mechanical operation	30 times insertions and extractions.		① Contact resistance: 30m $\Omega$ 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 $\mu$ s. ② No damage, crack or looseness of parts.		X -	
Shock	$\triangle$	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	$\triangle$	Temperature -55°C → +85°C Time 30min → 30min Under 5 cycles. (The transferring time of the tank is 2 to 3 min) (After leaving the room temperature for 1 to 2h.)	① Contact resistance: 30m $\Omega$ MAX. ② Insulation resistance: 1000M $\Omega$ MIN. ③ No damage, crack or looseness of parts.		X -	
Damp heat (Steady state)	Exposed at 40 $\pm$ 2 °c, 90 to 95 %, 96 h.		① Contact resistance: 30m $\Omega$ MAX. ② Insulation resistance: 500M $\Omega$ MIN. ③ No damage, crack or looseness of parts.		X -	
Resistance to soldering heat	$\triangle$	1) Automatic soldering (Flow) Soldered at solder temperature 260°C for immersing duration 10s. 2) Manual soldering Soldering iron temperature: 300°C Soldering time: 2s No strength on contact.	No deformation of case of excessive looseness of the terminals.		X -	
Solderability	$\triangle$	Soldered at solder temperature 245°C for in immersing duration 3s.	A new uniform coating of solder shall cover minimum of 95% of the surface being immersed.		X -	
<b>Remarks</b>						
Note 1: Including the temperature rise by current.						
Note 2: No condensing. $\triangle$						
Note 3: Apply to the condition of long term storage for unused products before mounted on PCB. After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation. $\triangle$						
	Count	Description of revisions	Designed	Checked	Date	
$\triangle$	12	DIS-H-00005250	TO. KUROMATSU	SZ. ONO	20190904	
Unless otherwise specified , refer to IEC 60512.				Approved	KJ. KATAYOSE	20050105
				Checked	TY. OMA	20050105
				Designed	IO. DENPOUYA	20050105
				Drawn	IO. DENPOUYA	20050105
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.		ELC-081445-00-00	
<b>HRS</b>	Specification sheet		Part no.	DF3A-2P-2DSA		
	Hirose electric co., ltd.		Code no.	CL543-0165-0-00	$\triangle$ 1/1	