

Applicable standard								
Rating	Operating Temperature Range	-55 to +85°C (Note1)		Storage Temperature Range	-10 °C to +60°C (Note3)			
	Operating Humidity Range	20% to 80% (Note2)		Storage Humidity Range	40% to 70% (Note3)			
	Voltage	100 V AC/DC		Applicable Connector	DF58-*S-1.2C(##)			
	Current	Number of contacts	AWG28	AWG30				
		2	3.0A	2.5A				
		3	2.5A	2.0A				
		4,6	2.0A	1.5A				
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	20mV MAX, 1mA (DC or 1000Hz).			10 mΩ MAX.	X	—		
Insulation Resistance	100 V DC.			100 MΩ MIN.	X	—		
Voltage Proof	500 V AC for 1 min.			No flashover or breakdown.	X	—		
Mechanical Characteristics								
Mechanical Operation	10 times insertion and extraction.			1.Contact resistance: 20 mΩ MAX. 2.No damage, crack or looseness of parts.	X	—		
Mating and unmating force	It takes out and inserts with a conformity connector.			Number of contacts	Mating force	Unmating force	X	—
				2	12.0N MAX	1.2N MIN		
				3	16.0N MAX	1.3N MIN		
				4	20.0N MAX	1.4N MIN		
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.			1.No electrical discontinuity of 1 μ s. 2.No damage, crack or looseness of parts.		X	—	
								Shock
Environmental Characteristics								
Damp Heat (Steady State)	Exposed at 40 ± 2°C , humidity 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)			1.Contact resistance: 20 mΩ MAX. 2.Insulation resistance: 100 MΩ MIN. 3.No damage, crack or looseness of parts.		X	—	
Rapid Change Of Temperature	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.)							
Dry Heat	Exposed at 85±2°C, 96h							
Cold	Exposed at -55±3°C, 96h							
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 board , operating temperature and humidity range is applied for interim storage during transportation.								
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
△								
				APPROVED	HS. OKAWA	16. 06. 21		
				CHECKED	YN. TAKASHITA	16. 06. 20		
				DESIGNED	TH. YOSHIKAWA	16. 06. 20		
				DRAWN	TH. YOSHIKAWA	16. 06. 20		
Unless otherwise specified, refer to IEC 60512.								
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-371175-00-00			
HRS	SPECIFICATION SHEET		PART NO.	DF58-*P-1. 2V (21)				
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL666-		△	1/2	

Specifications

Item	Test method	Requirements	QT	AT
Resistance to soldering heat	1) Reflow soldering << Reflow area >> 250°C MAX 10 sec MAX 220°C MIN 60 sec MAX << Preheating area >> 150°C to 180°C 90 sec to 120 sec 2) Manual soldering Soldering iron temperature :350±10°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, 5sec.	Solder shall cover a minimum of 95 % of the surface being immersed.	X	—

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