

Applicable standard								
RATING	Operating temperature range	-55°C to + 85°C (Note 1)			Storage temperature range	-10°C to + 60°C (Note 3)		
	Operating humidity range	20% to 80% (Note 2)			Storage humidity range	40% to 70% (Note 3)		
	Voltage	1000V AC/DC			Applicable connector	DF22-*S-7. 92C (28) DF22#-*S-7. 92C #=B, C		
	Current (*1)	Contact	2, 3	4, 5	Current (*2)	Contact	2, 3	4, 5
		AWG10	38A/pin	33A/pin		AWG10	25A/pin	22A/pin
AWG12		32A/pin	26A/pin	AWG12		20A/pin	18A/pin	
AWG14		23A/pin	22A/pin	AWG14		18A/pin	15A/pin	
	AWG16	21A/pin	19A/pin		AWG16	15A/pin	13A/pin	
RATED VOLTAGE		RATED CURRENT			OVERVOLTAGE CATEGORY		IP- DEGREE	
UL		600V AC/DC			SEE ABOVE LEFT (*1) (AT AMBIENT TEMP. 25°C) (NOTE 4)		—	
C-UL		600V AC/DC			SEE ABOVE RIGHT (*2) (TEMP. RISE UP 30°C MAX)		—	
TUV		600V AC/DC			SEE ABOVE RIGHT (*2)		II IP00	
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 1000 Hz).			5mΩ MAX.		X	—
Millivolt level method								
Insulation resistance		1000V DC.			1000MΩ MIN.		X	—
Voltage proof		2500V AC for 1 min.			No flashover or breakdown.		X	—
Mechanical characteristics								
Mechanical operation		50 times insertions and extractions.			1) Contact resistance: 10mΩ 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	—
	Count	Description of revisions		Designed		Checked		Date
△								
Unless otherwise specified , refer to IEC 60512.					Approved	HS. OKAWA		20200310
					Checked	SZ. ONO		20200310
					Designed	SN. MIWA		20200310
					Drawn	DS. HIROWATARI		20200306
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				Drawing no.		ELC-163718-53-00		
HRS	Specification sheet			Part no.		DF22-*P-7. 92DS (53)		
	Hirose electric co., ltd.			Code no.		CL680		△ 1/2

Specifications					
Item	Test method	Requirements	QT	AT	
ENVIRONMENTAL CHARACTERISTICS					
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: 10mΩ 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: 10mΩ MAX. 2) Insulation resistance: 500MΩ MIN. 3) No damage, crack or looseness of parts.	X	—	
RESISTANCE TO SOLDERING HEAT	1) Solder bath method Solder temperature : 260°C for Immersion,duration : 10 sec . 2) Manual soldering Soldering iron temperature : 350°C Soldering time : 3 sec. 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	—	
Remarks Note1: Include the temperature rising by current. Note2: No condensing Note3: Apply to the condition of long term storage for unused products before mount on pcb, After mounted on pcb, operating temperature and humidity range is applied for interim storage during transportation. Note4: Indicates the current that corresponds to the RTI value (temperature at which performance is halved) of the resin when the ambient temperature is 25°C.					
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	SPECIFICATION SHEET	PART NO.	DF22-*P-7. 92DS (53)		
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