





Applicable standard						
Rating	Operating Temperature Range 	-55℃ to +105℃(Note1)		Storage Temperature Range	-10 ℃ to +60℃ (Note3)	
	Operating Humidity Range	20% to 80% (Note2)		Storage Humidity Range	40% to 70% (Note3)	
	Voltage	630 V AC/DC		Applicable Connector	DF63R-4P-3.96DSA DF63(A)-4EP-3.96C	
	Current	AWG #16 : 10A    AWG #18 : 8A AWG #20 : 7A    AWG #22 : 6A		Applicable Contact	DF63-1618SC* DF63-2022SC*	
		Rated Voltage	Rated Current	Overvoltage Category	IP-Degree	
UL,C-UL		600V AC/DC	See above	-	-	
TUV		300V AC/DC	See above	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						
Insulation Resistance		500 V DC.		1000 MΩ MIN.	X    —	
Voltage Proof		1500 V AC for 1 min.		No flashover or breakdown.	X    —	
Mechanical Characteristics						
Mechanical operation		30 times insertion and extraction		No damage, crack or looseness of parts.	X    —	
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.			X    —	
Shock		Acceleration 490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.			X    —	
Environmental Characteristics						
Damp Heat (Steady State)		Exposed at 40 ± 2℃ , humidity 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)		1.Insulation resistance: 500 MΩ MIN. 2.No damage, crack or looseness of parts.	X    —	
Rapid Change Of Temperature		Temperature    -55℃→ +85℃ 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.Insulation resistance: 1000 MΩ MIN. 2.No damage, crack or looseness of parts.	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 board , operating temperature and humidity range is applied for interim storage during transportation.						
	Count	Description of revisions	Designed	Checked	Date	
	1	DIS-H-00002332	MI. SAKIMURA	TS. FUKUSHIMA	16. 11. 29	
Unless otherwise specified, refer to IEC 60512.				Approved	KI. AKIYAMA	15. 11. 09
				Checked	TS. FUKUSHIMA	15. 11. 06
				Designed	YK. YAMAGUCHI	15. 11. 06
				Drawn	YK. YAMAGUCHI	15. 11. 06
Note    QT:Qualification Test    AT:Assurance Test    X:Applicable Test			Drawing no.		ELC-357164-00-00	
	Specification sheet		Part no.	DF63R-4S-3. 96C		
	Hirose electric co., Ltd.		Code no.	CL680-0524-9-00	 1/1	