Applicabl	e standard										
Operating temperature ra		nge	-55 °C to +105°C (Note1) 20% to 80% (Note2)		tempera	Storage temperature range Storage humidity range		-10 °C	to +60°	C (Note3	3)
Rating	Operating humidity range				humidity			40%	6 to 70%	to 70% (Note3)	
	Applicable co	nnector	DF63-3S-3.96C		Voltage	Voltage		AC/DC 630V			
					Curren	Current		AWG #16 : 15A AWG #			-
			Rated Voltage Rated Curr		ırrent	ent Over		AWG #20 : 11A AWG #2 rvoltage Category IP-Degre			
UL,C-UL		600V AC/DC		See above		-		Jaiogory	- alogory in Dog		
TUV		300V AC/DC See ab			ove	е п		IP0		IP00	
				Specific	ations						
	tem		Test me	•			Re	quirements		QT	AT
Construction		1				<u> </u>					1
General examination		Visually and by measuring instrument.				According to drawing.					X
Marking		Confirmed visually.									X
Electric o	haracterist	tics									1
Contact resi		20mV MAX, 1mA (DC or 1000Hz).				10 mΩ MAX.				Х	-
Insulation resistance		500 V DC.			10	1000 MΩ MIN.				Х	† -
Voltage pro	of	1500 V AC for 1 min.				No flashover or breakdown.				X	 -
Mechani	cal charact	eristics									I
Mechanical		50 times insertion and extraction.				①Contact resistance: 20 mΩ MAX. X -					_
						②No damage, crack or looseness of parts.					
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.				①No electrical discontinuity of 1 μ s. ②No damage, crack or looseness of parts.				X	_
Shock		490 m/s ² duration of pulse 11 ms at 3 times each for 3 both				①No electrical discontinuity of $1 \mu s$.				X	_
			axial directions.					looseness of pa			
Environm	ental charac	teristics									
Damp heat		Exposed at 40 ± 2°C , 90 to 95 %, 96 h.				①Contact resistance: 20 mΩ MAX.					_
(Steady state)		(After leaving the room temperature for 1-2h.)				②Insulation resistance: 500 MΩ MIN. ③No damage, crack or looseness of parts.					
Rapid change of temperature		Temperature -55°C→ +85°C				①Contact resistance: 20 mΩ MAX.				X	 _
	·	Time 30min→ 30min				②Insulation resistance: 1000 MΩ MIN.					
		Under 5 cy	cles. sferring time of the tan	k is 2.2 min)	3	No dar	nage, crack or	looseness of pa	arts.		
		-	ng the room temperature	•							
Resistance to) 	1)Solder bath method				Such as impaired function ,no deformation of case					
Soldering heat 🛕		Soldered at solder temperature,				of excessive looseness of the terminals.					_
		260°c for in immersion, duration, 5s. 2)Manual soldering				<u>/2</u>					
		,	ng iron temperature :	300°C,							
			ng time :3s.								
Solderability		No strength on contact. Soldered at solder temperature,				A new uniform coating of solder shall cover				_	
•		245°c for in immersion , duration, 5 s.				minimum of 95 % of the surface being immersed.					_
	ude the temper	ature risino	g by current.								
Note 2: No on Note 3: App		ion of long	term storage for un	used products b	efore mount	ted on	PCB.				
			ition temperature ar					e during tran	sportation.		
Cour	nt	Descript	ion of revisions		Designe			Checked		D	ate
2 Pomarke		D1S-H-00005520 TO. KUR			TO. KUROMA			SZ. ONO		_	91202
Remarks						-	Approved		OKAWA		80129
						-	Checked	+	UKUSHIMA	_	80129
Unless otherwise specified, refer to IE			FC 60512			Designed		TS. KUMAZAWA			80129
· · · · · · · · · · · · · · · · · · ·			<u> </u>			Drawn		TS. KUMAZAWA			80129
lote QT:Qualification Test AT:Assurance Test X:Applicable Test						Drawing no. ELC-374387				U	
HS		Specification sheet			Part no.		DF63M-2P-7. 92DSA(01)				I
_		Hirose electric co., ltd.			Code n	0	CL680-0581-0-01 2 1			1/1	