APPLICA	BLE STAN	DARD							
	Operating temperature range Voltage Current		-40 °C to 125 °C	tem	orage mperature range		-10 °C to 50 °C (Packed condition)		
RATING			50 V AC / DC	hun	erating or nidity ran	ge	Relative humidity 90 % MAX (Not dewe		
						dicable cable $t = 0.3 \pm 0.05$ mm, Gold C/FFC) Heat resistance : 12			ng
			SPECIF	FICATIO	NS				
IT	EM		TEST METHOD			REC	QUIREMENTS	QT	АТ
CONSTR	RUCTION								
General examination		Visually a	and by measuring instrument.		Accord	According to drawing.			×
Marking		Confirmed visually.				1			×
ELECTR	ICAL CHA	RACTE	RISTICS					·	
Contact resistance		1 mA (DC or 1000 Hz).				50 m $\Omega$ MAX. Including FPC/FFC bulk resistance (L = 8 mm)			×
Insulation resistance		100 V DC.			500 Ms	500 MΩ MIN.			×
Voltage proo	of	150 V AC for 1 min.			No flas	shover or bro	eakdown.	×	×
MECHAN	IICAL CHA	RACTE	RISTICS		•				
Mechanical o	operation	20 times insertions and extractions.					ance : 50 m $\Omega$ MAX.	×	_
							rack and looseness of parts.		
Vibration			Frequency 10 to 55 Hz, half amplitude			<ol> <li>No electrical discontinuity of 1 μs.</li> <li>Contact resistance : 50 mΩ MAX.</li> </ol>			-
		0.75 mm, for 10 cycles in 3 axial directions.			_				
Shock		981 m/s <sup>2</sup>	duration of pulse 6 ms		_ 3 140	③ No damage, crack and looseness of parts.			_
		at 3 times	s in 3 both axial directions.						
FPC/FFC retention force		Measured by applicable FPC/FFC.			Directi	Direction of insertion: 0.3 x n N MIN.			_
		(Connector, FPC/FFC at initial condition.				(n : Number of contacts)			
			s of FPC/FFC shall be t = 0.30 ACTERISTICS	mm)	(note	1)			
				.1525 °C	① Co	ataat raaiata	anno i FO mo MAV	×	1
Rapid change of temperature		Temperature -55 $\rightarrow$ +15 to +35 $\rightarrow$ +125 $\rightarrow$ +15 to +35 °C Time 30 $\rightarrow$ 2 to 3 $\rightarrow$ 30 $\rightarrow$ 2 to 3 min. Under 1000 cycles.			2 Ins	<ol> <li>Contact resistance : 50 mΩ MAX.</li> <li>Insulation resistance : 50 MΩ MIN.</li> </ol>			_
High temper	ature and high		at 85 ± 2 °C,		- 3 No	damage, cr	ack and looseness of parts.	×	1_
humidity	ataro arra riigir		humidity 90 to 95 %, 1000 h.					^	
Damp heat,	cyclic	Exposed at -10 to +65 °C,				① Contact resistance : 50 mΩ MAX.			_
			Relative humidity 90 to 96 %, 10 cycles, Total 240 h.			<ul> <li>Insulation resistance : 1 MΩ MIN.</li> <li>(At high humidity)</li> <li>Insulation resistance : 50 MΩ MIN.</li> </ul>			
		To cycles							
					(At dry)				
					4 No	4 No damage, crack and looseness of parts.			
Dry heat		Exposed	xposed at 125 ± 2 °C, 1000 h.			① Contact resistance : 50 mΩ MAX.			<u> </u>
Cold		Exposed at -55 ± 3 °C, 1000 h.			(2) No	② No damage, crack and looseness of parts.			
Corrosion salt mist		Exposed	Exposed at 35 ± 2 °C, 5 % salt water spray for 96 h.			Contact resistance : 50 mΩ MAX.			
Sulphur diox	ide C 60068-2-42	Exposed	at 40 ± 2 °C, Relative humidity	y 80 ± 5 %,				×	-
Hydrogen su	Ilphide	Exposed	at 40 ± 2 °C, Relative humidity	y 80 ± 5 %,	1			×	-
COUN	C 60068-2-43		opm for 96 h. ON OF REVISIONS	DESI	GNED		CHECKED	DATE	
<u> </u>									
REMARK			APPROVED HS. SAKAMOTO		ED HS. SAKAMOTO	17.0	2. 15		
						CHECKE	D HS. SAKAMOTO	17.0	2. 15
						DESIGNE	D SG. MASAKI	17. 02. 1	
Unless otherwise specified			fied, refer to IEC 60512.			DRAWN SG. MASAKI			)2. 14
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			t	DRAWING NO. ELC-371661-99			1		
			PECIFICATION SHEET  PART				FH65-**S-0. 5SH (99)		
ਸ਼		ACCE ELECTRIC CO. LED		E NO. CL580				1/2	
FORM HD0011-2-1		CODE		INO. ULJOU			44	1/4	

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	AT				
Resistance to soldering heat	1) Reflow soldering (To be 2 times MAX.) Peak TMP. 250 °C MAX. Reflow TMP. over 230 °C within 60 sec. Pre-heating. 150 to 200 °C 90 to 120 sec. 2) Soldering irons: 400 ± 10 °C, for 5 ± 1 sec.	No deformation of case of excessive looseness of the terminals.	×	_				
Solderability	Soldered at solder temperature, $245 \pm 3$ °C for immersion duration, $3 \pm 0.3$ sec.	A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.	×	_				

## (note 1)

This product has flip-lock construction.

Fasten FPC/FFC on PCB or something fixed if force in vertical direction shall be predicted.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-371661-99-00		
HRS	SPECIFICATION SHEET	PART NO.	FH65-**S-0. 5SH(99)			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580		2/2