APPLICA	BLE STA	ANDARD									
	Operating temperature range		-55 °C to 105 °C	Storage tempera range			-10°C TO 60°C (Packed condition)				
RATING			50V AC/DC		humidi	Operating or storage humidity range		Re	elative humidity 90 % MAX		
	Current		0.50 A		Applicable cable (FPC/FFC)		ole		t=0.33±0.03mm, Gold (Ground plate : Tin		
			SPEC	IFIC	IOITA	NS					
דו	ГЕМ		TEST METHOD				R	EQU	IREMENTS	QT	AT
CONSTRUCTION		J .						•	•		
General examination			Visually and by measuring instrument.			According to drawing.				×	×
Marking		Confirmed	<u> </u>			(note	1)			×	×
		IARACTE				1					-
Voltage proof			150 V AC for 1 min.			No flashover or breakdown.				×	×
Insulation resistance		100 V DC	100 V DC.			500 MΩ MIN.				×	×
Contact resis	stance	AC 20 m\	AC 20 mV MAX , 1 mA .			100 mg	Ω MAX.			×	×
							Including FPC/FFC bulk resistance (L=8mm(FPC) , 20mm(FFC))				
	NICAL C	HARACTE									
Vibration			Frequency 10 to 55 Hz, half amplitude			① No electrical discontinuity of 1 μs.				×	-
Shock			0.75 mm, for 10 cycles in 3 axial directions. 981 m/s ² , duration of pulse 6 ms			② Contact resistance: 100 mΩ MAX.③ No damage, crack and looseness of parts.				. ×	+_
		at 3 times	at 3 times in 3 both axial directions.							1	
Mechanical of	operation	10 times	10 times insertions and extractions.			 Contact resistance: 100 mΩ MAX. No damage, crack and looseness of parts. 			×	-	
FPC/FFC		Measured	Measured by applicable FPC/FFC. (Thickness of FPC/FFC shall be t=0.33mm			Insertion force : Direction of insertion (n : Number of contacts)			· ×	+-	
insertion/ext	raction force	`									
		at initial	condition.)						(FPC/FFC) (note 2)		
						I			(Shielded FFC) (<i>note 2</i>) ection of extraction	'	
							imber of				
						I			FPC/FFC) (note 2)		
FPC/FFC		Measured	Measured by applicable FPC/FFC.			7+0.22×n N MAX (Shielded FFC) (<i>note 2</i>) Direction of extraction			-		
retention for	ce		(Thickness of FPC/FFC shall be t=0.33mm			(n : Number of contacts)				×	-
		at initial	at initial condition.)				18+0.06×n N MIN (FPC/FFC) (<i>note3</i>) 12+0.12×n N MIN (Shielded FFC) (<i>note3</i>)				
ENVIRO	NMENTA	AL CHARA	CTERISTICS						. (<u> </u>
Corrosion sa	alt mist	Exposed for 96 h.	at 35 ± 2 °C, 5% salt water	spray		① Cor	ntact resis	stanc	e: 100 mΩ MAX.	×	_
Rapid chang		Tempera	Temperature-55→+15TO+35→+105→+15TO+35°C			① Contact resistance: 100 mΩ MAX.				×	_
temperature						② Insulation resistance: $50 \text{ M}\Omega \text{ MIN}$.					
Damp heat (Steady stat		Under 5 cycles. Exposed at 60±2 °C,			③ No damage, crack and looseness of parts.				×	+-
·	•	Relative h	numidity 90 to 95 %, 96 h.								
Damp heat,	cyclic		Exposed at -10 to +65 °c, Relative humidity 90 to 96 %,			① Contact resistance: 100 mΩ MAX.				×	-
			10 cycles, TOTAL 240 h.			② Insulation resistance: 1 MΩ MIN. (At high humidity)					
						$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $					
						,	At dry) damage,	cracl	c and looseness of parts		
COUN	IT I	DESCRIPTION	ON OF REVISIONS		DESIG	NED			CHECKED	D/	L ATE
1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	. 		DIS-F-00002084			RT. IKEDA			FN. TAMURA	17. 04. 05	
REMARK								VED	NF. MIYAZAKI	+	12. 26
							CHECK	ŒD	SJ. OKAMURA		12. 26
						DESIGNE		NED			12. 26
Unless otherwise specified, refer to IEC 60512.			er to IEC 60512.		DRAWN S		SH. YAMAGUCHI	15. 12. 26			
Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC-3575					ELC-357595-	00-0	0				
HS.		SPECIFICATION SHEET			PART NO.			FH63-**S-0. 5SH			
•	H	IROSE EL	ECTRIC CO., LTD.	TRIC CO., LTD.		CODE NO.		CL580		Δ	1/2

SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ			
Dry heat	Exposed at 105±2°C, 96 h.	① Contact resistance: 100 mΩ MAX.	×	_			
Cold	Exposed at -55±3°C, 96 h.	② No damage, crack and looseness of parts	×	_			
Sulphur dioxide [JIS C 60068-2-42]	Exposed at 40 ± 2 °C, Relative humidity $80\pm5\%$ 25 ± 5 ppm for 96 h.	① Contact resistance: 100 mΩ MAX.	×	_			
Hydrogen sulphide [JIS C 60068-2-43]	Exposed at 40 ± 2 °C, Relative humidity $80\pm5\%$, 10 to 15 ppm for 96 h.		×	_			
Solderability	Soldered at solder temperature, 245±0.3°C for immersion duration,3±0.3 sec.	A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.	×	-			
Resistance to soldering heat	1) Reflow soldering: Peak TMP. 250 °C MAX. Reflow TMP. over 220 °C 60 to 90 sec. Number of reflow: 2 times 2) Soldering irons: TMP. 350±10 °C for 5±1 sec.	No deformation of case of excessive looseness of the terminals. (<i>note 4</i>)	×	_			

(note 1)

This product features bottom-contact point.

"One Action Lock" completes FPC/FFC lock just by inserting the FPC/FFC.

Do not operate the actuator when inserting the FPC/FFC.

(note 2)

Do not insert the FPC/FFC to this product at an angle.

⚠ (note 3)

Stabilize the FPC/FFC to PCB or something fixed, if pull-up or pull-down force is exepected to be applied to the FPC/FFC.

There's a case witch FPC/FFC retention force doesn't fulfill the value, because FPC/FFC specification affects the result of FPC/FFC retention force.

(note 4)

Blisters which may be generated on the housing do not affect product performance.

(note 5)

The occurrence and the length of whisker, and the performance deterioration caused by it are out of the scope of this specification

Note Q	:Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	NG NO.	ELC-357595-00-00		
R	SPECIFICATION SHEET	PART NO.	RT NO. FH63-**S-0. 5SH			
1.	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	\triangle	2/2