APPLICA	BLE S	TANDARD									
Operati		ng ature range	-55 °C to 125 °C (note 1)		Storage temp				-10°C TO 50°C(Packed conditi		
RATING	Voltage		50V AC/DC		humidi	ting or storage ity range		Re	elative humidity 90 % MAX	(Not d	lewed)
	Current		0.50 A Application (FPC/I			able cable FFC) t=0.30±0.05mm, Gold p				d platir	ng
			SPEC	IFIC/	ATIOI	NS					
I	ГЕМ		TEST METHOD				RI	EQU	IREMENTS	QT	AT
CONSTR	RUCTIO	NC									
General examination		Visually a	, ,				According to drawing.				×
Marking		Confirme	Confirmed visually.							×	×
ELECTRICAL CHAP											
Voltage proof			150 V AC for 1 min.				No flashover or breakdown.				
Insulation resistance		100 V DC	100 V DC.				500 MΩ MIN.				-
Contact resistance		AC 20 m ¹	AC 20 mV MAX , 1 mA .				Initial:50 mΩ MAX、After each test:70 mΩ MAX (Including FPC/FFC bulk resistance L=8mm)				_
MECHAN	VICAL (CHARACTE	RISTICS				,			1	
Vibration			Frequency 10 to 55 Hz, half amplitude				① No electrical discontinuity of 1 μs.				T –
Objects			0.75 mm, for 10 cycles in 3 axial directions. 981 m/s², duration of pulse 6 ms				② Contact resistance: 70 mΩ MAX				
Shock			, duration of pulse 6 ms in 3 both axial directions.			③ No damage, crack and looseness of parts.				. ×	-
Mechanical	operation						① Contact resistance: 70 mΩ MAX				_
						② No damage, crack and looseness of parts.					
FPC/FFC retention for	00		Measured by applicable FPC/FFC.				Direction of extraction 23.0 N MIN (note2)			×	-
retermon for	ce	`	(Thickness of FPC/FFC shall be t=0.30mm at initial condition.)				N IVIIN (note	PZ)		
ENVIRO	NMEN		ACTERISTICS								l .
Rapid chang			Temperature-55→+15 _{TO} +35→+125→+15 _{TO} +35°C			① Cor	ntact resis	tanc	e: 70 mΩ MAX	×	_
temperature			Under 1000 cycles.				② Insulation resistance: 50 MΩ MIN.③ No damage, crack and looseness of parts.				
Damp heat ((Steady s		Exposed at 60±2 °C, Relative humidity 90 to 95 %, 1000 h.							×	-
Damp heat,cyclic		Exposed	Exposed at -10 to +65 °c, Relative humidity 90 to 96 %, 10 cycles, TOTAL 240 h.				ntact resis	tanc	e: 70 mΩ MAX	×	_
									nce: 1 MΩ MIN.		
		TO Cycles					At high hu		ty) nce: 50 MΩ MIN. (At dry)		
							No damage, crack and looseness of parts				
Dry heat		Exposed	Exposed at 125±2°C, 1000 h.				① Contact resistance: 70 mΩ MAX				_
Cold		Exposed	Exposed at -55±3°C, 96 h.				② No damage, crack and looseness of parts				_
Sulphur dioxide		Exposed	Exposed at 40±2 °C,				① Contact resistance: 70 mΩ MAX				_
			Relative humidity 80±5%								
Soldorabilit	,		25±5 ppm for 96 h.				uniform a	natin	a of colder shall sover a	1	
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			1) Reflow soldering :			No deformation of case of excessive				×	_
soldering heat		Reflo Numb 2) Solde	Peak TMP. 250 °C MAX . Reflow TMP. over 220 °C 60 to 90 sec. Number of reflow : 2 times 2) Soldering irons :			looseness of the terminals. (note 3)					
00:::	ı		400±10 °C for 5±1 sec.		DECIC	NED	I		OUEOVED	+-	\
COUN	N 1	DESCRIPTIO	ON OF REVISIONS		DESIG	INED			CHECKED	1 0/	ATE
REMARK			cified, refer to IEC 60512.			APPROVED HS. HIRAHARA			200	20720	
						CHECKED DESIGNED DRAWN			HS. HIRAHARA	ARA 2023072	
									YT. SASAKI		
Unless of	herwise	specified re							YT. SASAKI	20230727	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test					DF	DRAWING NO.			ELC-382064-00-0		
RS SPECIFICATION			CATION SHEET		PART NO.			FH69-40S-0. 5SH			
117		HIROSE EI	OSE ELECTRIC CO., LTD.			NO. CL058		058	0-5006-0-00	Δ	1/2
TIIIX			331 1110 00., LID.			INO. OLOGO					_ · · -

(note 1)

The heat resistant temperature when using FFC is 105°C.

When the heat resistant temperature of FPC/FFC is less than 125°C/105°C, the heat resistant temperature of FPC/FFC is applied.

(note 2)

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 3)

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

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	NG NO.	ELC-382064-00-00			
SH.	SPECIFICATION SHEET	PART NO.	FH69-40S-0. 5SH				
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL580	0-5006-0-00	\triangle	2/2	