APPLICA	BLE STAN	DARD									
OPERATING TEMPERATI		E RANGE -55 °C TO 105 °C TEMP						-10°CTO50°C(PACKED	COND	ITION)	
RATING	VOLTAGE		50 V AC / D	С	HUMIE	OPERATING OR HUMIDITY RANGE		ЭЕ F	RELATIVE HUMIDITY 90 % MAX	EWED)	
CURRENT			0.5 A APPLICABLE CABLE t=0.3±0.03mm, GO			t=0.3±0.03mm, GOLD	PLATI	NG			
			SPEC	IFIC/	ATIO	NS					
	ГЕМ		TEST METHOD				R	EQU	IREMENTS	QT	AT
	RUCTION										1
	EXAMINATION		Y AND BY MEASURING IN	ISTRUM	ENT.	ACCO	RDING TO	) DF	RAWING.	×	×
			MED VISUALLY.							×	×
VOLTAGE F	ICAL CHA					NO FLASHOVER OR BREAKDOWN.					
INSULATIO						500 Mg			C BILLARDOWN.	×	_
RESISTANC	ЭE	100 V DC.				500 1012	.2 10111 N.			^	_
CONTACT I	RESISTANCE	AC/DC 20 mV MAX ( AC:1 KHz ) , 1 mA .				100 mg	Ω MAX.			×	-
						INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)					
	NICAL CHA									-	1
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 AXIAL DIRECTIONS.				<u> </u>	1 NO ELECTRICAL DISCONTINUITY OF				—
SHOCK		981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms					1 μs. (2) CONTACT RESISTANCE: 100 mΩ MAX.				—
		AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.			<ul> <li>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ul>						
MECHANIC		20 TIMES INSERTIONS AND EXTRACTIONS.			(1) CONTACT RESISTANCE: $100 \text{ m}\Omega \text{ MAX}.$				. ×	_	
OPERATIO	Ν				② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				;		
FPC RETEN	ITION FORCE	MEASURED BY APPLICABLE FPC.			DIRECTION OF INSERTION :				×	_	
		(THICKNESS OF FPC SHALL BE t=0.30mm					P CONTA				
		AT INITI/	AL CONDITION.)				I × NUMBE FTOM CO		OF CONTACTS + 2.5 MIN	•	
							0.3N × NUMBER OF CONTACTS+2.5 MIN.				
						(not	e 1)				
				15TO13	2500	1 00					1
RAPID CHANGE OF TEMPERATURE						<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>INSULATION RESISTANCE: 50 MΩ MIN.</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ol>					-
DAMP HEAT		EXPOSED AT 40±2 °C,								×	—
(STEADY STATE) DAMP HEAT,CYCLIC		RELATIVE HUMIDITY 90 TO 95 %, 96 h.			1 00						
		EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %,							×	_	
		10 CYCLES,TOTAL 240 h.			<ul> <li>(AT HIGH HUMIDITY)</li> <li>INSULATION RESISTANCE: 50 MΩ MIN.</li> <li>(AT DRY)</li> </ul>						
						④ NÒ	DAMAGE	, CF	RACK AND LOOSENESS		
DRY HEAT		EXPOSED AT 105±2 °C, 96 h			OF PARTS. (1) CONTACT RESISTANCE: $100 \text{ m}\Omega \text{ MAX}$ .				~		
COLD		EXPOSED AT -55±3°C, 96 h.				② NO DAMAGE, CRACK AND LOOSENESS					
						OF PARTS.					
COUN		SCRIPTI	ON OF REVISIONS		DESIG				CHECKED		
$\Delta$ 1			F-00014061		SE. YOKO				HY. YAMAZAKI		20531
REMARK		510			52. TUN	/ um/1	APPROV	ED	YN. TAKASHITA		00001
							CHECK		SJ. OKAMURA	1	90409
This prod	uct is RoHS	compliant.				DESIGN		NY. YAMASHIRO		90408	
Unless ot	nerwise spe	ified, refer to IEC 60512.				DRAWN		N	NY. YAMASHIRO	2019	90408
Note QT:Qualification Test AT:Assurance Test X:Applicable Test DI				RAWING NO. ELC-387736-			·50–00				
HRS	SI				PART	т NO. FH34D-*S-0. 5SH (50		)			
	HIR				CODE	CODE NO.		CL580			1/2

SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS	QT	AT			
SULPHUR DIOXIDE	EXPOSED AT 40±2 ℃ ,	(1) CONTACT RESISTANCE: 100 m $\Omega$ MAX.	×	_			
[JIS C 60068-2-42]	RELATIVE HUMIDITY 80±5% 25±5 ppm FOR 96 h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	-			
		<ul> <li>3 NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.</li> </ul>					
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235±5°C FOR IMMERSION DURATION, 2±0.5 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	-			
RESISTANCE TO SOLDERING HEAT	<ol> <li>1) REFLOW SOLDERING : PEAK TMP. 250 °C MAX . REFLOW TMP. OVER 230 °C WITHIN 60 sec.</li> <li>2) SOLDERING IRONS : TMP. 350 ± 10 °C FOR 5±1 sec .</li> </ol>	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	_			

## (note1)

FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED. DO NOT CLOSE THE ACTUATOR BEFORE INSERTING FPC EVEN AFTER THE CONNECTOR IS MOUNTED ONTO A PCB. CLOSING THE ACTUATOR WITHOUT FPC COULD MAKE THE CONTACT GAP SMALLER, WHICH INCREASES THE FPC INSERTION FORCE.

THIS CONNECTOR HAS CONTACTS ON THE BOTH TOP AND BOTTOM.

THERE'S A CASE WHICH FPC/FFC RETENTION FORCE DOESN'T FULFILL THE VALUE, BECAUSE FPC/FFC SPECIFICATION AFFECTS THE RESULT OF FPC/FFC RETENTION FORCE.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-387736-50-00		
HRS	SPECIFICATION SHEET	PART NO.	FH34D-*S-0.5SH(50)			
	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	◬	2/2

FORM HD0011-2-2