APPLICA	BLE STAN	DARD											
OPERATING TEMPERATURE		RE RANGE	40 °C TO 95 °C			STORAGE TEMPERATURE RANGE		-	-10 °C TO 50 °C (PACKED CONDITION				
RATING	VOLTAGE CURRENT		50 V AC / DC 0.5 A (note 1)				TING C	OR STORAGE		RELATIVE HUMIDITY 90 % MAX		(NOT DEWED)	
					APPL	APPLICABLE CABLE			t=0.3±0.05mm, GOLD	PLATI	NG		
	•	•	S	PECII	FICA	TIOI	VS		•				
ІТ	EM		TEST ME	THOD				RE	QUI	REMENTS	QT	AT	
CONSTR													
	XAMINATION		Y AND BY MEASUR	RING INST	RUMEN	IT.	ACCORDING TO DRAWING.			×	×		
MARKING			CONFIRMED VISUALLY.								×	×	
	ELECTRIC CHARA CONTACT RESISTANCE						50 mO	MAX			Τ×	Τ×	
CONTACT RESISTANCE		IMA(DC OR 1000H2).				50 mΩ MAX. INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)							
INSULATION RESISTANC	INSULATION RESISTANCE		100 V DC.				500 MΩ MIN.			×	×		
VOLTAGE P	ROOF	150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			×	×				
MECHAN	IICAL CH	ARACTE	RISTICS								<u> </u>	1	
MECHANICAL OPERATION		20 TIMES INSERTIONS AND EXTRACTIONS.				 CONTACT RESISTANCE: 50 mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 			×	-			
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 AXIAL DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF 1 μs.			1 ×				
SHOCK		981 m/s ² , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.				 ② CONTACT RESISTANCE: 50 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 			×	-			
FPC RETENTION FORCE		MEASURED BY APPLICABLE FPC. (CONNECTOR, FPC AT INITIAL CONDITION. THICKNESS OF FPC SHALL BE t=0.30mm)				DIRECTION OF INSERTION: 0.4×n N MIN (n: NUMBER OF CONTACTS).			×	-			
ENVIRO	MENTAL		CTERISTICS		,		l				<u> </u>		
RAPID CHANGE OF TEMPERATURE		TEMPERATURE-40 \rightarrow +15TO+35 \rightarrow +85 \rightarrow +15TO+35 $^{\circ}$ C TIME 30 \rightarrow 2 TO 3 \rightarrow 30 \rightarrow 2 TO 3 min. UNDER 5 CYCLES.			① CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX. ② INSULATION RESISTANCE: $50 \text{ M}\Omega$ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS				×	-			
DAMP HEAT		EXPOSED AT 40±2 °C,				OF PARTS.			×	+-			
(STEADY ST	,	RELATIVE HUMIDITY 90 TO 95 %, 96 h. EXPOSED AT -10 TO +65 °C,				(1) CO	UTACT DE	CIC	FANCE: FO O MAY	+			
DAMP HEAT,CYCLIC		EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES,TOTAL 240 h.			 CONTACT RESISTANCE: 50 mΩ MAX. INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 			×					
DRY HEAT	DRY HEAT		EXPOSED AT 85±2 °C, 96 h.			① CONTACT RESISTANCE: 50 mΩ MAX.				×	-		
COLD		EXPOSE	EXPOSED AT -40±3°C, 96 h.				② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				×	1-	
CORROSION SALT MIST			EXPOSED AT 35±2 °C 5% SALT WATER SPRAY FOR 96 h.			RAY	① CONTACT RESISTANCE: 50 mΩ MAX. ② NO EVIDENCE OF CORROSION WHICH				×	-	
SULPHUR DIOXIDE IJIS C 60068-2-421		EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 25±5 ppm FOR 96 h.				AFFECTS TO OPERATION OF CONNECTOR.				×	-		
HYDROGEN [JIS			D AT 40±2 °C , REL 10 TO 15 ppm FOR		MIDITY						×	-	
COUN	T D	I ESCRIPTION	ON OF REVISIONS			DESIG	NED			CHECKED	D/	ATE	
<u> </u>													
REMARK							APPROVED CHECKED DESIGNED		\rightarrow	MO. ISHIDA HS. SAKAMOTO	+	04. 09 04. 09	
									-	SG. MASAKI	13. 04.		
Unless otherwise specified, refer to JIS C 5402.			02.				DRAWI	-	NM. SANPEI	13. 04. 08			
Note QT:Qualification Test AT:Assurance Test X:Applicable Tes								ELC4-346494					
HS	S	PECIFICATION SHEET P			PART	RT NO.		Fŀ	FH52-10 (4) SA-1SH				
EOPM HD0011-	HIROSE EL		ECTRIC CO., LTD. COD		CODE	E NO. CL58		80	30-3330-0-00		1/2		

SPECIFICATIONS									
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ					
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING (TO BE 2 TIMES MAX.) PEAK TMP. 250 °C MAX REFLOW TMP. OVER 230 °C WITHIN 30 sec. PRE-HEATING. 150 TO 200°C 90 TO 120 sec. 2) SOLDERING IRONS: 350 ± 10 °C, FOR 5± 1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	_					
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.	×	_					

(note 1)

WHEN THE SAME VALUE OF CURRENT ARE APPLIED TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

Note QT:	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	NG NO.	ELC4-346494-01		
HRS	SPECIFICATION SHEET	PART NO.	FH52-10 (4) SA-1SH			
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL580	-3330-0-00	A	2/2