APPLIC/	ABLE	STANE	DARD										
OPERATING TEMPERATURE RANGE				-55 °C	TO 85	5 °C		RAGE	NE DAN'S=	_1	0°C TO 50°C (PACKED	CONIC	ЭШОИ
RATING		PERATURE TAGE	RANGE	30\/ \C / DC		OPER.	:MPERATURE RANGE PERATING OR STORAGE IMIDITY RANGE		<u>=</u>	·			
								ICABLE		+	,		
	CUR	RENT		(0.20 A	ILIO		NIO		-	t=0.12±0.02mm, GOLD F	'LATI	ΝG
					SPEC	IFIC/	4110	<u> </u>				1	
	TEM			TEST	METHOD				R	EQU	IREMENTS	QT	AT
CONSTI			\	/ AND DV MEAC	LIBINO IN	OTDLINAE	NIT	140001	DINO TO		AVAUNIO		
			VISUALLY AND BY MEASURING INSTRUMENT. CONFIRMED VISUALLY.				ACCORDING TO DRAWING. (note 1,2)				×	×	
	210.0							<u> </u>				×	×
ELECTE								NO EL	ASHOVE	- OP	BDEAKDOWN	T ,,	Ι.,
			90 V AC FOR 1 min. 100 V DC.				NO FLASHOVER OR BREAKDOWN.			×	×		
RESISTANCE			100 V DC.				50 MΩ MIN.			×	×		
CONTACT	RESIS	TANCE	AC 20 mV MAX (1KHz) , 1 mA .				300 ms	2 MAX.			×	×	
							INCLUDING FPC,FFC BULK RESISTANCE						
MECHA	ΝΙΓΔ		PACTE	RISTICS				(L=8mm))				
VIBRATION					z. HALF AN	MPLITUR)E	① NO	FLECTRI	CAI	DISCONTINUITY	×	Γ_
			FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm FOR 10 CYCLES IN 3 AXIAL DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF 1 µs.			Ĺ	L		
SHOCK				DURATION OF				1			TANCE: 300 m Ω MAX.	×	-
			AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.				③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.						
MECHANIC	CAL		10TIMES INSERTIONS AND EXTRACTIONS.				① CONTACT RESISTANCE: 300 m Ω MAX.			×	_		
OPERATIO	N						② NO DAMAGE, CRACK AND LOOSENESS						
EDC DETENTION FORCE M			MEASURED BY APPLICABLE FPC.				OF PARTS. DIRECTION OF INSERTION : 5.6 N MIN			×			
I FO RETENTION FOR CE			(THICKNESS OF FPC SHALL BE t=0.12mm				(note 3)			^	_		
<u> </u>				L CONDITION.)									
CORROSIC				CTERISTIC		A/ATED 6		(A) 001	NTAGE D	-010	TANOT: 200 MAY	T	
CORROSIC	JN SAL	LI WIISI	FOR 96 h	D AT 35±2 ℃, ∜	5 % SALI V	WATERS	SPRAY	① CONTACT RESISTANCE: 300 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS				×	-
								PARTS.	,	, , , , , , , , , , , , , , , , , , , ,			
							③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF						
							CONNECTOR.						
RAPID CHA		OF	TEMPERATURE-55→+15 _{TO} +35→+85→+15 _{TO} +35°C				 CONTACT RESISTANCE: 300 mΩ MAX. INSULATION RESISTANCE: 50 MΩ MIN. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 				×	_	
TEMPERAT	TURE		TIME $30 \rightarrow 2 \text{ TO } 3 \rightarrow 30 \rightarrow 2 \text{ TO } 3 \text{ min}$ UNDER 5 CYCLES. EXPOSED AT $40 \pm 2 ^{\circ}\text{C}$,										
DAMP HEA	.T										×	-	
(STEADY S	TATE)		RELATIVE HUMIDITY 90 TO 95 %, 96 h.										
DAMP HEA	T,CYC	LIC	EXPOSED AT -10 TO +65 °C,			① CONTACT RESISTANCE: 300 mΩ MAX.				×	-		
			RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES, TOTAL 240 h.				 (2) INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) (3) INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) 						
					NO DAMAGE, CRACK AND LOOSENESS OF PARTS.								
cour	NT	DE	SCRIPTIO	N OF REVISION	NS		DESIG				CHECKED	DA	TE
◮													
REMARK						I			APPROV	/ED	MO. ISHIDA	13. 0	4. 12
Unless otherwise specified, re							CHECKEI DESIGNE		-	ST. WADA	13. 04. 12 13. 04. 12		
									ED	HY. YAMAZAKI			
			efer to JIS C 5402.			DRAWN		N	HY. YAMAZAKI		4. 12		
Note QT:0	Qualific	ation Test	AT:Assı	ırance Test X:Ap	plicable Te	st	DI	RAWIN	G NO.		ELC4-336359	-00	
wc		SE	SPECIFICATION SHEET PART			NO.	NO. FH53-41S						
							ENO. CL580-3401-7-00			Δ	1/2		
ORM HD0011		1 111 11			·., LID.		CODE	. INU.	UL		, טדטווטדט	<u>~~</u>	112

SPECIFICATIONS									
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ					
DRY HEAT	EXPOSED AT 85±2 °C, 96 h.	① CONTACT RESISTANCE: 300 mΩ MAX.	×	_					
COLD	EXPOSED AT -55±3°C, 96 h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	_					
	EXPOSED AT 40±2 °C,	① CONTACT RESISTANCE: 300 mΩ MAX.	×	_					
[JIS C 60068-2-42]	RELATIVE HUMIDITY 80±5%	② NO DAMAGE, CRACK AND LOOSENESS							
	25±5 ppm FOR 96 h.	OF PARTS.							
	EXPOSED AT 40±2 °C,	③ NO EVIDENCE OF CORROSION WHICH	×	_					
[JIS C 60068-2-43]	RELATIVE HUMIDITY 80±5%,	AFFECTS TO OPERATION OF							
	10 TO 15 ppm FOR 96 h.	CONNECTOR.							
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE,	A NEW UNIFORM COATING OF SOLDER	×	_					
	245±3°C FOR IMMERSION DURATION,	SHALL COVER A MINIMUM OF 95 % OF							
	3±0.3 sec.	THE SURFACE BEING IMMERSED.							
RESISTANCE TO	1) REFLOW SOLDERING :	NO DEFORMATION OF CASE OF	×	_					
SOLDERING HEAT	PEAK TMP. 250 °C MAX .	EXCESSIVE LOOSENESS OF THE							
	REFLOW TMP. OVER 230°C WITHIN 60 sec.	TERMINALS. (note 4)							
	2) SOLDERING IRONS :								
	TMP. 350±10 °C FOR 5±1 sec .								

(note1)

THIS IS A TOP CONTACT POINT CONNECTOR WITH BACK FLIP LOCK SYSTEM.

(note2)

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.

(note3)

STABILIZE THE FPC TO PCB OR SOMETHING FIXED, IF PULL-UP OR PULL-DOWN FORCE IS EXPECTED TO BE APPLIED TO THE FPC.

(note4)

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	IG NO.	ELC4-336359-00			
HS	SPECIFICATION SHEET	PART NO.	FH53-41S-0. 2SHW				
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL580	-3401-7-00	Δ	2/2	