APPLICA	BLE STAN	DARD									
OPERATING TEMPERATUR		E RANGE	-40 °C TO 10	5 °C	STOR		RE RANGE	-10°CTO50°C(PACKEDCON		TION)	
RATING	VOLTAGE	-	50 V AC / DO	C '	OPER/		OR STORAGE	RELATIVE HUMIDITY 90 % MAX	(NOT DE	NOT DEWED)	
	CURRENT		_		ICABLE (	ABLE CABLE t=0.3±0.05mm, GOLD P			NG		
		•	SPEC	IFIC	IOITA	NS					
IT	EM		TEST METHOD				REC	QUIREMENTS	QT	АТ	
CONSTR											
	XAMINATION				ACCO	RDING TO	DRAWING.	×	×		
MARKING		CONFIRMED VISUALLY.							×	×	
		RACTERISTICS				Teo O MAY				1	
CONTACT RESISTANCE		1mA(DC OR 1000Hz).			50 mΩ MAX.  INCLUDING FPC,FFC BULK RESISTANCE			×	×		
INSULATION		100 V DC.			(L=8mm) 500 MΩ MIN.				×		
RESISTANCE VOLTAGE PROOF		150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			×	×		
		DACTE	DICTICC								
MECHANICAL CHA MECHANICAL OPERATION		20 TIMES INSERTIONS AND EXTRACTIONS.			<ol> <li>CONTACT RESISTANCE: 50 mΩ MAX.</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ol>			×	_		
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.			×	-		
SHOCK		981 m/s <sup>2</sup> , 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 RETEN	TION 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		/	1					
RAPID CHANGE OF		TEMPERATURE-40→+15 <sub>TO</sub> +35→+105→+15 <sub>TO</sub> +35°C				_			×	_	
TEMPERATURE		UNDER 5 CYCLES.			(2) INSULATION RESISTANCE: 50 M $\Omega$ MIN. (3) NO DAMAGE, CRACK AND LOOSENESS						
DAMP HEAT (STEADY ST		EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.				OF	PARTS.		×	_	
DAMP HEAT	CYCLIC	EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES,TOTAL 240 h.			① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS				_		
DRY HEAT		EXPOSED AT 105±2 °C, 96 h.			OF PARTS.  ① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS				_		
COLD		EXPOSED AT -40±3°C, 96 h.							<del> </del>		
		EXPOSED AT 35±2 °C 5% SALT WATER SPRAY			OF PARTS.  ① CONTACT RESISTANCE: 50 mΩ MAX. ② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.				-		
SULPHUR DIOXIDE		FOR 96 h.  EXPOSED AT 40±2 °C , RELATIVE HUMIDITY  80±5% , 25±5 ppm FOR 96 h.							-		
HYDROGEN	SULPHIDE	EXPOSE	D AT 40±2 °C , RELATIVE I 10 TO 15 ppm FOR 96 h.	HUMIDI	TY		NNLCTOR.		×	_	
COUN	T DE	SCRIPTIC	ON OF REVISIONS		DESIG	NED		CHECKED	DA	TE	
◬											
REMARK						APPROVE		+	4. 21		
					CHECKED				4. 21		
Unless oth	nerwise spec	cified, refer to IEC 60512.			DESIGNED HK. KINOUCHI DRAWN RN. IIDA		-	16. 04. 21 16. 02. 22			
· · · · · · · · · · · · · · · · · · ·				DF	DRAWING NO. ELC-347552-9						
HS.	SF	PECIFI	ECIFICATION SHEET PART			NO. FH52E-**S-0. 5SH (99		9)	))		
	HIR	HIROSE ELECTRIC CO., LTI		CODE		NO.		CL580	⚠	1/2	

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ				
RESISTANCE TO	1) REFLOW SOLDERING (TO BE 2 TIMES MAX.)	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.						
	PRE-HEATING. 150 TO 200°C							
	90 TO 120 sec.							
	2)SOLDERING IRONS : 350 ± 10 °C,							
	FOR 5±1 sec.							
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE,	A NEW UNIFORM COATING OF SOLDER	×	_				
	245±3 °C FOR IMMERSION DURATION, 3±0.3	SHALL COVER A MINIMUM OF 95 % OF						
	sec.	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:Q	ualification Test AT:Assurance Test X:	Applicable Test	DRAWIN	IG NO.	ELC-347552-	99-0	0
н	HS SPECIFICATION SHEET			PART NO.	FH52E-**S-0. 5SH (99)			
	<b>\</b>	HIROSE ELECTRIC CO.	., LTD.	CODE NO		CL580	$\triangle$	2/2