APPLICABLE STANDARD			\triangle								
OPERATING TEMPERATUR		E RANGE	⚠ -40 °C TO 10	5 °C	TEMF		RE RANGE		°CTO 105°C (MOUN	NTEDON	IPCB)
RATING	VOLTAGE		50 V AC / D	С	HUMIDITY RA			RELA	ПVЕНИМІДПУ 90 % МА	X(NOT DI	EWED)
CURRENT			0.5 A (note 1	<u> </u>		APPLICABLE CABLE t=			t=0.3±0.05mm, GOLD PLATING		
			SPEC	IFIC	ATIO	NS					
	EM		TEST METHOD				REC	QUIRE	MENTS	QT	AT
	RUCTION					_					
GENERAL EXAMINATION VISUA				ISTRUM	ENT.	ACCO	RDING TO	DRAW	/ING.	×	×
MARKING			CONFIRMED VISUALLY.							×	×
		RACTERISTICS				1					1
CONTACT	RESISTANCE	1mA(DC OR 1000Hz).			50 mΩ MAX.				×	×	
							INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)				
INSULATION		100 V DC.			500 Mg	500 MΩ MIN.				×	
	RESISTANCE VOLTAGE PROOF		150 V AC FOR 1 min.			NO FL	NO FLASHOVER OR BREAKDOWN.				×
MECHAN	IICAL CHA	RACT									1
MECHANIC			S INSERTIONS AND EXTRA	ACTION	S.	① CO	NTACT RE	SISTA	NCE: 50 mΩ MAX	. x	_
OPERATION					② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				S		
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 AXIAL			① NO ELECTRICAL DISCONTINUITY OF				×	_	
		DIRECTI		AL		1 μs. ② CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX.					
SHOCK		981 m/s ² , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.			③ NO DAMAGE, CRACK AND LOOSENESS					-	
FPC RETEN	ITION FORCE		IRED BY APPLICABLE FPC		J.	OF PARTS. DIRECTION OF INSERTION: 0.4×n N MIN			×	<u> </u>	
		(CONNECTOR, FPC AT INITIAL CONDITION.			(n : NUMBER OF CONTACTS).				^		
EN // DO			ESS OF FPC SHALL BE t=0).30mm)						
			ACTERISTICS	1051	F . 2500	10.00	NTACT DE	CICTA	NOT: FO O MAY	1	I
TEMPERATURE (1)		TEMPERATURE-40 \rightarrow +15 _{TO} +35 \rightarrow +105 \rightarrow +15 _{TO} +35°C TIME 30 \rightarrow 2 TO 3 \rightarrow 30 \rightarrow 2 TO 3 min. UNDER 5 CYCLES.			 ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 						
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.							×	_	
DAMP HEAT	,	EXPOSED AT -10 TO +65 °C,			① CONTACT RESISTANCE: 50 mΩ MAX.				×	_	
·		RELATIVE HUMIDITY 90 TO 96 %,				② INSULATION RESISTANCE: 1 M Ω MIN.					
		10 CYCLES,TOTAL 240 h.				(AT HIGH HUMIDITY) (3) INSULATION RESISTANCE: 50 M Ω MIN.					
						(AT DRY) 4 NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
										S	
DRY HEAT 1		EXPOSED AT 105±2 °C, 96 h.			① CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX.				×	<u> </u>	
COLD		EXPOSE	EXPOSED AT -40±3°C, 96 h.			② NO DAMAGE, CRACK AND LOOSENESS				s x	_
CORROSION SALT MIST		EXPOSED AT 35±2 °C 5% SALT WATER SPRAY			OF PARTS. ① CONTACT RESISTANCE: 50 mΩ MAX.					<u> </u>	
		FOR 96 h.			② NO EVIDENCE OF CORROSION WHICH				, ,		
	SULPHUR DIOXIDE [JIS C 60068-2-42]		EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 25±5 ppm FOR 96 h.			AFFECTS TO OPERATION OF CONNECTOR.			×	-	
HYDROGEN	SULPHIDE	EXPOSE	ED AT 40±2 °C , RELATIVE	HUMIDI	TY					×	-
		80±5%			I CHECKED				DA	ATE	
<u> </u>		-F-0000202 HK. KIN					HS. SAKAMOTO)3. 25		
REMARK						APPROVE		-	NF. MIYAZAKI		03. 04
STORAGE TEMPERATURE : -10 TO +50 °C 🗘			RE RANGE IN THE EMBOSSED CARRIER TAI			PE CHECK		D	SJ. OKAMURA	15.0	03. 03
						DESIGNED		D	HK. KINOUCHI	15. 03. 0	
Unless otherwise specified			d, refer to JIS C 5402.			DRAWN		HK. KINOUCHI	15. 03. 03		
	ualification Tes	st AT:As	surance Test X:Applicable T	est	DF	RAWIN	G NO.		ELC-359845-)
HS.	SF	SPECIFICATION SHEET HIROSE ELECTRIC CO., LTD.			PART	PART NO.		FH52E-*(*) SB-1SH			ı
	HIR				CODE NO.		CL580 🛆				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 60 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, 245±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.	×	_				

(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 Q	:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.		ELC-359845-00-00		
R	SPECIFICATION SHEET	PART NO.	FH52E-* (*) SB-1SH			
	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	Δ	2/2