APPLICA	BLE STAN	DARD									
OPERATING TEMPERATUR					PERATURE RANGE			-40 °C TO 105 °C (MOUNTED ON PCB)			
RATING	VOLTAGE		50 V AC / DC HUMIC		JIII HANGL		E RI	RELATIVE HUMIDITY 90 % MAX (NOT DEWED)			
	CURRENT	0.5 A (<i>note 1</i>) APPLICABLE CABLE t=0.3±0.05mm					t=0.3±0.05mm, GOLD	n, GOLD PLATING			
			SF	PECIFIC	ATIOI	NS					
	ГЕМ		TEST MET	HOD			RE	QUI	REMENTS	QT	АТ
	RUCTION	•									
	EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.				×	×	
MARKING		CONFIRMED VISUALLY.							×	×	
		RACTERISTICS				ı					1
CONTACT RESISTANCE		1mA(DC OR 1000Hz).			50 mΩ MAX.			×	×		
						INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)					
INSULATIO RESISTANO		100 V DC.			500 MΩ MIN.				×	×	
VOLTAGE F		150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.				×	×	
MECHAN	VICAL CHA	RACTE	RISTICS								l .
MECHANIC		20 TIMES INSERTIONS AND EXTRACTIONS.				① CONTACT RESISTANCE: 50 mΩ MAX.				×	
OPERATIO	OPERATION					② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
VIBRATION			NCY 10 TO 55 Hz	•	ITUDE	① NO ELECTRICAL DISCONTINUITY OF			×	_	
		0.75 mm DIRECTI	, FOR 10 CYCLES IN ONS.	3 AXIAL		1 μs. ② CONTACT RESISTANCE: 50 m Ω 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 OF PARTS.				-		
FPC RETENTION FORCE		MEASURED BY APPLICABLE FPC. (CONNECTOR,FPC AT INITIAL CONDITION.			DIRECTION OF INSERTION: 0.4×n N MIN (n: NUMBER OF CONTACTS).			×	_		
		`	ESS OF FPC SHALL			`					
			ACTERISTICS								
RAPID CHANGE OF TEMPERATURE		TEMPERATURE- $40 \rightarrow +15_{TO}+35 \rightarrow +105 \rightarrow +15_{TO}+35^{\circ}C$ TIME $30 \rightarrow 2_{TO} \ 3 \rightarrow 30 \rightarrow 2_{TO} \ 3$ min. UNDER 5 CYCLES.			 ① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 				_		
DAMP HEAT		EXPOSED AT 40±2 °C,						×	_		
(STEADY S'	,	RELATIVE HUMIDITY 90 TO 95 %, 96 h. EXPOSED AT -10 TO +65 °C,			① CONTACT RESISTANCE: 50 m Ω MAX.				×	<u> </u>	
DAMIF FILAT, OTOLIO		RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES,TOTAL 240 h.			② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY)						
						$\begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} \hline t$					
						4 NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				6	
DRY HEAT		EXPOSED AT 105±2 °C, 96 h.			① CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX.				×	-	
COLD		EXPOSED AT -40±3°C, 96 h.			② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				×	 -	
CORROSION SALT MIST		EXPOSED AT 35±2 °C 5% SALT WATER SPRAY FOR 96 h.			① CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX.				×	-	
SULPHUR DIOXIDE		EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 25±5 ppm FOR 96 h.			② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.			×	-		
HYDROGEN SULPHIDE		EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 10 TO 15 ppm FOR 96 h.			JONNEGION.				×	-	
COUN	1		ON OF REVISIONS	70 11.	DESIG	NED			CHECKED	D^	ATE
△ 5	VI DE		F-00000202		HK. KIN				HS. SAKAMOTO	15. 03. 25	
REMARK		JIO I GOGGEZOZ IIIK. KIN			APPROVED		ED	NF. MIYAZAKI		03. 04	
STORAGE TEMPERATI		URE RANGE IN THE EMBOSSED CARRIER TAI					_	SJ. OKAMURA		03. 03	
: -10 TO +50 °C ▲							ED	HK. KINOUCHI			
Unless otl	herwise spe	cified, refer to JIS C 5402.			DRAWN		HK. KINOUCHI	15. 03. 03			
Note QT:C	Qualification Tes	st AT:Assurance Test X:Applicable Test D			DF	RAWING NO.		ELC-359845-00-00)	
HS	SI	PECIFICATION SHEET PAR			PART	TNO. FH52E-*(*) SB-1S		ł	ı		
	HIR	HIROSE ELECTRIC CO., LTD. COD			CODE	E NO. CL580			Δ	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 QT	Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.		ELC-359845-00-00		
HRS	SPECIFICATION SHEET	PART NO.	FH52E-* (*) SB-1SH			
	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	Δ	2/2