APPLICA	BLE STAN	IDARD									
OPERATING TEMPERATUR			-55 °C TO 85	5 °C	TEM	RAGE PERATURE RANGE			−10 °C TO 50 °C (PACKED)		OMON)
RATING	VOLTAGE		50 V AC / D	С			ATING OR STORAGE DITY RANGE		RELATIVE HUMIDITY 90 % MAX		EWED)
CURRENT			0.5 A (note 1	')	APPL	APPLICABLE CABLE t=0.3±0.03mm, C			t=0.3±0.03mm, GOLD	PLATI	NG
			SPEC	IFICA	TIOI	NS					
רו	EM		TEST METHOD				RE	QUII	REMENTS	QT	AT
CONSTRUCTION										_	_
	XAMINATION		Y AND BY MEASURING INS	STRUMEN	NT.	ACCORDING TO DRAWING.				×	×
MARKING			MED VISUALLY.							×	×
VOLTAGE P			CTERISTICS 150 V AC FOR 1 min.				NO FLASHOVER OR BREAKDOWN.				T ×
INSULATION			100 V DC.			500 MΩ MIN.				×	\^ ★
RESISTANC										<u> </u>	<u> </u>
CONTACT F	RESISTANCE	AC 20 m\	AC 20 mV MAX (1 KHz), 1 mA.				2 MAX.			×	×
					INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)						
	NICAL CH		ERISTICS								
VIBRATION			FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, - m/s ² FOR 10 CYCLES IN			① NO ELECTRICAL DISCONTINUITY OF 1				1 ×	-
		3 DIREC	3 DIRECTIONS.				μ s. ② CONTACT RESISTANCE: 100 m Ω MAX.				
SHOCK			981 m/s ² , DURATION OF PULSE 6 ms			③ NO DAMAGE, CRACK AND LOOSENESS			×	[-	
MECHANICAL			AT 3 TIMES IN 3 DIRECTIONS. 20 TIMES INSERTIONS AND EXTRACTIONS.			OF PARTS. ① CONTACT RESISTANCE: $100 \text{ m}\Omega$ MAX.			×	+	
OPERATION			25 THREE HOEITHORG AND EXTRACTIONS.			② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
FPC RETEN	TION FORCE					① DIRECTION OF INSERTION: 0.15N×n MIN.			. ×	-	
		,	(THICKNESS OF FPC SHALL BE t=0.30mm AT INITIAL CONDITION.)			② VERTICAL DIRECTION OF INSERTION: 0.15N×n MIN. (note 2)					
LOCK OPER	RATION		MEASURED BY APPLICABLE FPC.			① CLOSING FORCE:			×	1-	
FORCE		`	(THICKNESS OF FPC SHALL BE t=0.30mm AT INITIAL CONDITION.)						× n MAX.(4 ~ 10 POS.)		
			AT INTIAL CONDITION.)			0.1N×n MAX.(11 ~ 50 POS.) ② OPENING FORCE: 0.05N×n MIN.					
ENVIRO	NMENTAL	CHARA	CHARACTERISTICS								-
CORROSION SALT MIST			EXPOSED AT 35 °C , 5 % SALT WATER SPRAY FOR 96 h.			 CONTACT RESISTANCE: 100 mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. 			×	_	
RAPID CHANGE OF TEMPERATURE DAMP HEAT		TIME	TEMPERATURE-55 \rightarrow +15 _{TO} +35 \rightarrow +85 \rightarrow +15 _{TO} +35°C TIME 30 \rightarrow 2 \sim 3 min UNDER 5 CYCLES. EXPOSED AT 40 °C,			① CONTACT RESISTANCE: $100 \text{ m}\Omega$ MAX. ② INSULATION RESISTANCE: $50 \text{ M}\Omega$ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS			×	-	
		EXPOSE				OF PARTS.				×	†-
(STEADY STATE) DAMP HEAT,CYCLIC			RELATIVE HUMIDITY 90 TO 95 %, 96 h. EXPOSED AT -10 TO +65 °C.			① 00	NTACT DE	יפופי	ANCE: 100 mg MAY	+	
DAMP HEAT, CTOLIC		RELATI	RELATIVE HUMIDITY 90 TO 96 %,			(1) CONTACT RESISTANCE: $100 \text{ m}\Omega$ MAX. (2) INSULATION RESISTANCE: $1 \text{ M}\Omega$ MIN.				×	_
		10 CYC	0 CYCLES,TOTAL 240 h.			(AT HIGH HUMIDITY)					
						③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY)					
						NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
COUN	Т	ESCRIPTION	ON OF REVISIONS		DESIG				CHECKED	DA	ATE
<u>A</u>											
REMARK							APPROVI	-	NM. NISHIMATSU		11.01
							DESIGNE	-	HS. SAKAMOTO TS. OONO		11. 01 10. 29
Unless otherwise specified			d, refer to JIS C 5402.				DRAWN	\dashv	TS. 00N0		10. 29
Note QT:Qualification Test AT:Assurance						PRAWING NO.			ELC4-155198-0		
HS.	S	SPECIFICATION SHEET			PART			H19			
11/7			005 51 507010 00 1 70		CODE	ODE NO.		(CL580		1/2
FORM HDOO11-	0 1										

SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ			
DRY HEAT	EXPOSED AT 85 °C, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX.	×	_			
COLD	EXPOSED AT -55°C, 96 h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	_			
	EXPOSED AT 40 °C , RELATIVE HUMIDITY 80% , 25 PPM FOR 96 h.	(1) CONTACT RESISTANCE: $100 \text{ m}\Omega$ MAX. (2) NO DAMAGE, CRACK AND LOOSENESS	×	_			
	EXPOSED AT 40 °C , RELATIVE HUMIDITY 80% , 10 ~ 15 PPM FOR 96 h.	OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	×	_			
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	_			
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING: PEAK TMP. 250 °C MAX. REFLOW TMP. 230 °C MIN FOR 60 sec. 2) SOLDERING IRONS: TMP. 350 ± 5 °C FOR 5 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×				

(note 1)

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

(note 2)

THIS PRODUCT HAS FLIP-LOCK CONSTRUCTION. FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC4-155198-07		
HRS	SPECIFICATION SHEET	PART NO.	FH19SC-**S-0. 5SH(09)			
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	A	2/2