APPLICA	BLE STAN	DARD											
	OPERATING TEMPERATUR	RE RANGE	-55 °C TO 85 °C <sub>TEM</sub>			PRAGE −10 °C TO 50 °C (PAC			C TO 50 °C (PACKEI	COND	OMON)		
RATING	VOLTAGE		50 V AC / DC   <sub>HUN</sub>		RATING OR STORAGE RELATIVE HUMIDITY 90 %		ÆHUMIDITY <b>90</b> % мах	MAX (NOT DEWED)					
CURRENT			0.5 A ( <b>note 1</b> )				t=0.2±0.03mm, GOLD PLAT				NG		
			( 1	SPEC	IFICA	<u>OIT</u>	NS						
	EM		TEST N	IETHOD				RE	QUIREM	IENTS	QT	АТ	
CONSTR		h nouse	· · · · · · · · · · · · · · · · · · ·				1.000	20110 70					
MARKING	XAMINATION		Y AND BY MEAS MED VISUALLY.	URING IN	STRUME	:N1.	ACCO	RDING TO	DRAWIN	NG.	×	×	
											×	×	
VOLTAGE P			CTERISTICS 150 V AC FOR 1 min.				NO FLASHOVER OR BREAKDOWN.				Τ×	×	
INSULATION						500 MΩ MIN.			+ ×	×			
RESISTANC													
CONTACT RESISTANCE		AC 20 mV MAX (1 KHz), 1 mA.					2 MAX.			×	×		
						1	INCLUDING FPC BULK RESISTANCE (L=8mm)						
MECHAN	IICAL CH	ARACTE	ERISTICS				1,-	<u>,                                      </u>				<u> </u>	
VIBRATION			FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE				NO ELECTRICAL DISCONTINUITY OF 1     μs.     ONTACT RESISTANCE: 100 mΩ MAX.				1 ×	-	
		0.75 mm, — m/s <sup>2</sup> FOR 10 CYCLES IN 3 DIRECTIONS.											
SHOCK			981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms				③ NO DAMAGE, CRACK AND LOOSENESS				×	1-	
MECHANIC <i>A</i>	<u> </u>	AT 3 TIMES IN 3 DIRECTIONS.  20 TIMES INSERTIONS AND EXTRACTIONS.				OF PARTS.				<b>—</b>			
OPERATION		20 TIMES INSERTIONS AND EXTRACTIONS.				<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ol>				×	-		
FPC RETEN	TION FORCE						① DIRECTION OF INSERTION : 1.05N MIN.(TARGET VALUE 5N)				×	-	
		(THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)							LUE 5N) NOF INSERTION :				
						1 -	1.05N MIN. (TARGET VALUE 2.1N)( <i>note</i> 2)						
LOCK OPER FORCE	ATION	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)				① CLOSING FORCE: 2.1N MAX. ② OPENING FORCE: 0.35N MIN.			×	-			
ENVIRO	MENTAL		ACTERISTIC	S							_	_	
CORROSION	N SALT MIST	EXPOSED AT 35 °C , 5 % SALT WATER SPRAY FOR 96 h.				<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> <li>NO EVIDENCE OF CORROSION WHICH</li> </ol>				×	_		
		TEMPERATURE OF ATTACK				AFFECTS TO OPERATION OF CONNECTOR.  (1) CONTACT RESISTANCE: 100 mΩ MAX.							
RAPID CHANGE OF TEMPERATURE		TIME $30 \rightarrow 2 \sim 3 \rightarrow 30 \rightarrow 2 \sim 3 \text{ min}$ UNDER 5 CYCLES.				② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS				×			
		EXPOSED AT 40 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.			OF	PARTS.			×	-			
DAMP HEAT		EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES,TOTAL 240 h.			<ul> <li>① CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>② INSULATION RESISTANCE: 1 MΩ MIN.         (AT HIGH HUMIDITY)</li> <li>③ INSULATION RESISTANCE: 50 MΩ MIN.         (AT DRY)</li> </ul>			×	_				
						(AT DRY)  ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.							
COUN	T D	ESCRIPTION	ON OF REVISION	IS		DESI	GNED		C	CHECKED	DA	ATE	
0													
REMARK			APPROVED RI. TAKAYASU			+	11.07						
							CHECKED TH. MURA I DESIGNED SI. MIZUSAWA			+	11.07		
    Inless otherwise specified			d refer to JIS C: 5402							11.06			
Unless otherwise specified, refer to JIS C 540					, 1	DRAWN							
						RAWING NO. ELC4-157728- T NO. FH19D-7S-0, 5SH			3-01				
									Δ	1/2			
							32333 2333 3 30   2			<u> </u>			

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.	ELC4-157728-01		
HS	SPECIFICATION SHEET		FH19D-7S-0. 5SH			
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL580	-2500-3-00	<b>A</b>	2/2