APPLIC/	ABLE STAN	DARD									
OPERATING		STORAGE				-10°C TO +50°C(PACKED CONDITION)					
RATING	VOLTAGE		50V AC/DC	OPERATIN	ATURE RANGE NG OR STORAGE		RELATIVE HUMIDITY 90%MAX(NOT DEV)
	CURRENT		0.5A (note1) HUMIDITY RAN					t=0.3±0.05mm, GOLD PLATED			
	CORRENT			CIFIC	ΔΤΙΩΝ	JS	ι-0.5	<u> </u>	olilli, dolb i Lateb		
	 「EM		TEST METHOD	.011 107	11101			DEOL	JIREMENTS	QT	АТ
CONSTRI			TEST WILTHOU					INLO	JINLINLIN I 3	QI	^1
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			-	ACCORDING TO DRAWING.				×	×
MARKING		CONFIRMED VISUALLY.								×	×
ELECTRIC	C CHARAC	TERIST	ICS								1
VOLTAGE PROOF		150V AC FOR 1 min±5sec.				NO FLASHOVER OR BREAKDOWN.				×	×
INSULATION	RESISTANCE	100±10V DC.				500MΩ MIN.				×	×
CONTACT RESISTANCE		AC 20mV MAX (1KHz), 1mA.				100mΩ MAX. INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)				×	×
MECHAN	ICAL CHAR										
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm FOR 10 CYCLES IN 3 AXIAL DIRECTIONS.			ONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μ s. ② CONTACT RESISTANCE: $100 \text{m}\Omega$ MAX.			×	_	
SHOCK		981 m/s², DURATION OF PULSE 6ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.				OF	PARTS.		ACK AND LOOSENESS	×	_
MECHANICAL OPERATION		20 TIMES INSERTIONS AND EXTRACTIONS.				CONTACT RESISTANCE: 100mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	_	
FPC RETENTION FORCE		MEASURED BY APPLICABLE FPC/FFC. (THICKNESS OF FPC SHALL BE t=0.30mm AT INITIAL CONDITION.)				DIRECTION OF INSERTION: 35N MIN. (note2)			×	_	
ENVIRON	MENTAL C	HARAC	TERISTICS								
CORROSION SALT MIST		EXPOSED AT 35±2°C, CONCENTRATION 5±1wt%,pH VALUE 6.5 TO 7.2 SALT WATER SPRAY FOR 96h.			7.2	 CONTACT RESISTANCE: 100mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. 				×	_
RAPID CHAN	IGE OF	TEMPERATURE -55→+15 TO +35→+85→+15 TO +35 °C			-35 °C	CONTACT RESISTANCE: 100mΩ MAX. INSULATION RESISTANCE: 50MΩ MIN. NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
TEMPERATU	RE	TIME 30 \rightarrow 2 TO 3 \rightarrow 30 \rightarrow 2 TO 3 min UNDER 5 CYCLES.			3 min					×	_
DAMP HEAT		EXPOSED AT 40±2°C,								· ·	
(STEADY ST		RELATIVE HUMIDITY 90 TO 95%, 96h. EXPOSED AT -10 TO +65 °C								×	_
DAMP HEAT, CYCLIC		RELATIVE HUMIDITY 90 TO 96 % 10 CYCLES, TOTAL 240h.				 CONTACT RESISTANCE: 100mΩ MAX. INSULATION RESISTANCE: 1MΩ MIN. (AT HIGH HUMIDITY) INSULATION RESISTANCE: 50MΩ MIN. (AT DRY) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 				×	_
COUN	T D	ESCRIPTI	ON OF REVISIONS		DESIG	iNED			CHECKED	DA	TE
1											
REMARK				APPROVE		VED	HS.SAKAMOTO	15.0	6.05		
						CHECI	KED	HS.SAKAMOTO	15.06.		
Unless otherwise specified, refer to JIS C 540			r to JIS C 5402.				DESIGNED DRAWN		HK.KINOUCHI HK.KINOUCHI		
				D			ELC-349128-0	<u> </u>			
186	SPECIFICATION SHEET PAR				RT NO. FH50-80S-0.5SH						
NO.	HIROSE ELECTRIC CO., LTD.			CODE NO.		CL580-4007-0-00		0-4007-0-00	<u>^</u>	1/2	

	SPECIFICATIO	NS		
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ
DRY HEAT	EXPOSED AT 85±2°C, 96h.	 CONTACT RESISTANCE: 100mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS 	×	_
COLD	EXPOSED AT -55±3°C, 96h.	OF PARTS.	×	_
SULPHUR DIOXIDE [JIS C 60068-2-42]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 25±5 ppm FOR 96h.	 CONTACT RESISTANCE: 100m Ω MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 	×	-
HYDROGEN SULPHIDE [JIS C 60068-2-43]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 10 TO 15 ppm FOR 96h.	③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	×	-
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.	×	-
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING: PEAK TMP. 250°CMAX. REFLOW TMP. OVER 230°C WITHIN 60 sec. 2) SOLDERING IRONS: TMP. 350±10°C FOR 5±1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	_

(note1)

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.

(note2)

FIXING THE FPC/FFC IS RECOMMENDED, IF THE VERTICAL LOAD IS EXPECTED TO BE APPLIED TO THE FPC/FFC.

(note3)

BLISTERS WHICH MAY BE GENERATED ON THE HOUSING DO NOT AFFECT PRODUCT PERFORMANCE.

(note4)

INCOMPLETE MATING PREVENTION STRUCTURE OF THIS CONNECTOR DOES NOT COVER

ALL THE POSSIBLE CASES OF INCOMPLETE MATING MODE.

BE SURE TO NEED THE INSTRUCTION MANUAL FOR YOUR UNDERSTANDING OF THE FEATURES AND ATTENSIONS.

Note QT:Qua	alification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-349128-00-00		
LDC.	SPECIFICATION SHEET	PART NO.	FH50-80S-0.5SH			
HS	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL580	0-4007-0-00	\triangle	2/2