APPLICA	ABLE STAN	DARD									
OPERATING TEMPERATURE		RANGE	−55°C TO +85°C	STORAGE TEMPERATURE RANG		GE	_10°C TC		O +50°C(PACKED CONDITION)		
RATING	VOLTAGE		50V AC/DC	OPERATIN	RATING OR STORAGE IIDITY RANGE		RELATIVE HUMIDITY 90%MAX(NOT DE)
	CURRENT		0.5A (note1) APPLICABLE		BLE CAB	LE	t=0.3	±0.0	5mm, GOLD PLATED		
			SPI	ECIFIC	OITA	NS					
IT	ГЕМ	TEST METHOD				REQUIREMENTS				QT	АТ
CONSTRU	JCTION										
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			Γ.	ACCORDING TO DRAWING.				×	×
MARKING		CONFIRMED VISUALLY.								×	×
	C CHARAC										
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)				×	×
MECHANI	ICAL CHAR	ACTER	ISTICS								
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm FOR 10 CYCLES IN 3 AXIAL DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF 1 μ s. ② CONTACT RESISTANCE: 100m Ω MAX.			×	_	
SHOCK		981 m/s ² , DURATION OF PULSE 6ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.				③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	_	
MECHANICAI	L OPERATION	20 TIMES INSERTIONS AND EXTRACTIONS.				 ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 			×	_	
FPC RETENT	TON 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			1					
CORROSION SALT MIST		EXPOSED AT 35±2°C, CONCENTRATION 5±1wt%,pH VALUE 6.5 TO 7.2 SALT WATER SPRAY FOR 96h.				 CONTACT RESISTANCE: 100m Ω MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. 				×	_
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 \rightarrow +15 TO +35 \rightarrow +85 \rightarrow +15 TO +35 °C TIME 30 \rightarrow 2 TO 3 \rightarrow 30 \rightarrow 2 TO 3 min				① CONTACT RESISTANCE: $100m\Omega$ MAX. ② INSULATION RESISTANCE: $50m\Omega$ MIN.				×	_
DAMP HEAT		UNDER 5 CYCLES. EXPOSED AT 40±2°C.				③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
(STEADY STATE)		RELATIVE HUMIDITY 90 TO 95%, 96h.								×	_
DAMP HEAT, CYCLIC		EXPOSED AT -10 TO +65 °C RELATIVE HUMIDITY 90 TO 96 % 10 CYCLES, TOTAL 240h.				 ① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 1MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 				×	_
COUN	т с	ESCRIPTI	ON OF REVISIONS		DESIG	INED			CHECKED	DA	TE
<u>/Ô.</u>						1					
REMARK				-		VED	HS.SAKAMOTO	15.06.05			
		fied, refer to JIS C 5402.				DESIGNED DRAWN					6.05 6.05
Unless oth	erwise speci								HK.KINOUCHI	15.0	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				D	DRAWING NO.			ELC-349128-00-00)	
זטכ	S	SPECIFICATION SHEET			PART	PART NO.		FH50-80S-0.5SH		. ,	
HS H		ROSE ELECTRIC CO., LTD.			CODE	CODE NO.		CL580-4007-0-00			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:	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	_
	TMP. 350±10°C FOR 5±1 sec.			

(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