


In case of consideration for using Autom otive equipm ent/device which dem and high re liability, kindly contactour sales w indow correspondents.

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE		-10°C TO 50°C (PACKED CONDITION)	
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 85 °C		OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90 % MAX (NOT DEMAED)
	VOLTAGE	30 V AC / DC			
CURRENT	0.15 A		APPLICABLE CABLE	t=0.3±0.05mm, GOLD PLATING	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS		QT	AT
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	X X X
GENERAL EXAMINATION	CONFIRMED VISUALLY.				
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	1mA(DC OR 1000HZ).	150 mΩ MAX.	INCLUDING FPC, BULK RESISTANCE (L=8mm)	X	X
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.		X	X
VOLTAGE PROOF	90 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		X	X
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	20 TIMES INSERTIONS AND EXTRactions.	① CONTACT RESISTANCE: 150 mΩ MAX.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 10 TO 55 Hz. HALF AMPLITUDE 0.75 mm. FOR 10 CYCLES IN 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs.		X	-
SHOCK	981 m/s ² , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS.	② CONTACT RESISTANCE: 150 mΩ MAX.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
FPC RETENSION FORCE	MEASURED BY APPLICABLE FPC. (CONNECTOR,FPC AT INITIAL CONDITION, THICKNESS OF FPC SHALL BE t=0.30mm)	DIRECTION OF INSERTION: 24 N MIN		X	-
ENVIRONMENTAL CHARACTERISTICS					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE:40→+15to+35→+85→+15to+35°C TIME 30→ 2 TO 3 → 30→ 2 TO 3 min. UNDER 5 CYCLES.	① CONTACT RESISTANCE: 150 mΩ MAX.	② INSULATION RESISTANCE: 50 MΩ MIN.	X	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 90 TO 95%, 96 h	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
DAMP HEAT,CYCLIC	EXPOSED AT -10 TO +65°C, RELATIVE HUMIDITY 90 TO 96%, 10 CYCLES.TOTAL 240 h.	① CONTACT RESISTANCE: 150 mΩ MAX.	② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY)	X	-
DRY HEAT	EXPOSED AT 85±2°C, 96 h.	③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY)	④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
COLD	EXPOSED AT -40±3°C, 96 h.	① CONTACT RESISTANCE: 150 mΩ MAX.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
CORROSION SALT MIST	EXPOSED AT 35±2 °C 5% SALT WATER SPLAY FOR 96 h.	③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY)	④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 80±5% , 25±5 PPM FOR 96 h.	① CONTACT RESISTANCE: 150 mΩ MAX.	② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	X	-
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 80±5% , 10 TO 15 PPM FOR 96 h.			X	-
REMARK	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
Note QT:Qualification Test AT:Assurance Test X:Applicable Test Unless otherwise specified, refer to JIS C 5402.	Q		APPROVED	R1. TAKAYASU	06.04.27
			CHECKED	TN.KUWATA	06.04.27
			DESIGNED	YS.EBI	06.04.27
			DRAWN	MK.YASUMI	06.04.27
DRAWING NO.		ELC4-154192-01			
SPECIFICATION SHEET PART NO. FH30-80S-0.3SHW (05)					
HIROSE ELECTRIC CO., LTD. CODE NO. GL580-0100-4-05  1/2					

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SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING (TO BE 2 TIMES MAX.) PEAK TMP. 250 °C MAX REFLOW TMP. 230 °C MIN FOR 30 sec. PRE-HEATING. 150 TO 200°C 90 TO 120 sec. SOLDERING IRONS : 350 ± 10 °C, FOR 5± 1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDED AT SOLDER TEMPERATURE, 235±5 °C FOR IMMERSION DURATION, 2±0.5 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	X	—

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	SPECIFICATION SHEET	PART NO.	FH30-80S-0.3SHW (05)
HIROSE ELECTRIC CO., LTD.		CODE NO	GL580-0100-4-05
			2/2