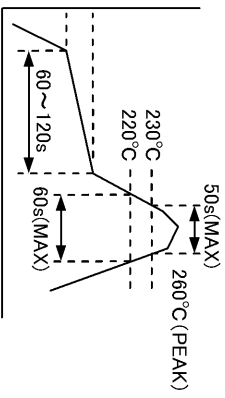


In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT	
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>				
	VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %				
	CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>				
<b>SPECIFICATIONS</b>								
ITEM	TEST METHOD		REQUIREMENTS		QT	AT		
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		x	x	x	
MARKING	CONFIRMED VISUALLY.				x	x	x	
<b>ELECTRIC CHARACTERISTICS</b>								
CONTACT RESISTANCE	20 mV MAX.	1 mA(DC OR 1000Hz)	60 mΩ MAX. <sup>(3)</sup>		x			
INSULATION RESISTANCE	100 V DC.		500 MΩ MIN.		x			
VOLTAGE PROOF	300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		x			
<b>MECHANICAL CHARACTERISTICS</b>								
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 18.6 N MAX. WITHDRAWAL FORCE: 1.55 N MIN.		x			
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 80 mΩ MAX. <sup>(3)</sup> ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x			
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGL AMPLITUDE : 0.76 mm, AT 2 h FOR 3 DIRECTION.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x			
SHOCK	490 ms <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.				x			
<b>ENVIRONMENTAL CHARACTERISTICS</b>								
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.		① CONTACT RESISTANCE: 80 mΩ MAX. <sup>(3)</sup> ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x			
DRY HEAT	EXPOSED AT 85±2 °C, 96 h							
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→+5~+35→+85→+5~+35°C TIME 30→ 5 MAX→ 30→ 5 MAX min. UNDER 5 CYCLES.				x			
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		① CONTACT RESISTANCE: 80 mΩ MAX. <sup>(3)</sup> ② NO HEAVY CORROSION.		x			
SULFUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS-C-0090)				x			
RESISTANCE TO SOLDERING HEAT	① REFLOW SOLDERING : REFLOW 2 TIMES UNDER THE TEMPERATURE PROFILE SHOWN BELOW.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.		x			
SOLDERABILITY	2) SOLDERING IRONS : 360°C MAX. FOR 5 sec. SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 3 sec.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.		x			
					x			
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE				
<b>REMARKS</b> ① INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. ② "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB. ③ INCLUDE CONDUCTOR RESISTANCE OF CABLE IN CASE THE MATED CONNECTOR IS CABLE TYPE (L=12mm) Unless otherwise specified, refer to JIS-C-5402.								
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-155934-00				
<b>HRS</b>		SPECIFICATION SHEET		PART NO.		FX15S-31S-0.5SH		
		HIROSE ELECTRIC CO., LTD.		CODE NO.		QL575-2306-5-00		
				APPROVED		HS. OKAWA		05.08.05
				CHECKED		HT. YAMAGUCHI		05.08.05
		DESIGNED		KN. SHIBUYA		05.08.05		
		DRAWN		KN. SHIBUYA		05.08.05		