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

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾	
	VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %	
	CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×	
MARKING	CONFIRMED VISUALLY.		×	×	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)	60 mΩ MAX. ⁽³⁾	×		
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	×		
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×		
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 30 N MAX. WITHDRAWAL FORCE: 2 N MIN.	×		
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 80 mΩ MAX. ⁽³⁾ ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×		
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGL AMPLITUDE : 0.76 mm, FOR 2 hrs IN 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×		
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.		×		
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 hrs.	① CONTACT RESISTANCE: 80 mΩ MAX. ⁽³⁾ ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×		
DRY HEAT	EXPOSED AT 85 ± 2 °C, 96 hrs				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +5 ~ +35 → +85 → +5 ~ +35 °C TIME 30 → 5 MAX → 30 → 5 MAX min. 5 CYCLES.		×		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs.	① CONTACT RESISTANCE: 80 mΩ MAX. ⁽³⁾ ② NO HEAVY CORROSION.	×		
SULFUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 hrs. (TEST STANDARD: JIS-C-0090)		×		
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : REFLOW 2 TIMES UNDER THE TEMPERATURE PROFILE SHOWN BELOW. 2) SOLDERING IRONS : 360 °C MAX. FOR 5 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×		
SOLDERABILITY	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.	×		
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARKS ⁽¹⁾ INCLUDE TEMPRERATURE 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.			APPROVED	HS. OKAWA	06.05.15
			CHECKED	HT. YAMAGUCHI	06.05.13
			DESIGNED	TH. NODA	06.05.12
			DRAWN	TH. NODA	06.05.12
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-155941-00	
HRS	SPECIFICATION SHEET		PART NO.	FX15M-21S-0.5SH	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL575-2309-3-00	1/1