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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	125 V AC	INSIDE 2 ROWS 250V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %		
	CURRENT	0.5 A	INSIDE 2 ROWS 1A	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.		x	x
MARKING	CONFIRMED VISUALLY.					x	x
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).			60 mΩ MAX.		x	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000Hz)			60 mΩ MAX.		x	—
INSULATION RESISTANCE	250 V DC.			1000 MΩ MIN.		x	—
VOLTAGE PROOF	300 V AC FOR 1 min.(INSIDE 2 ROW:600 V AC)			NO FLASHOVER OR BREAKDOWN.		x	—
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE: 112.8 N MAX. WITHDRAWAL FORCE: 14.1 N MIN.		x	—
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 70 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 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 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.					x	—
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.			①CONTACT RESISTANCE: 70 mΩ MAX. ②INSULATION RESISTANCE: 1000 MΩ MIN.		x	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 10~15 → 30 → 10~15 min UNDER 5 CYCLES.			③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			①CONTACT RESISTANCE: 70 mΩ MAX. ②NO HEAVY CORROSION.		x	—
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)					x	—
RESISTANCE TO SOLDERING HEAT	1) SOLDER BATH:SOLDER TEMPERATURE, 260±5°C FOR IMMERSION,DURATION,10±1s. 2) SOLDERING IRONS : 360°C FOR 5 s.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.		x	—
SOLDRABILITY	SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 2s.			A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.		x	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
							
REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.				APPROVED	HS. OKAWA	09.03.16	
				CHECKED	HT. YAMAGUCHI	09.03.16	
				DESIGNED	SY. KAMIGA	09.03.16	
Unless otherwise specified, refer to MIL-STD-1344.				DRAWN	HK. SUNADORI	09.03.16	
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-081605-21	
	SPECIFICATION SHEET			PART NO.	FX1-144S-1. 27DSL (71)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL571-0053-5-71		1/1