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

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	
APPLICATION STANDARD										
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C			STORAGE TEMPERATURE RANGE	--- °C TO --- °C				
	VOLTAGE	125 V AC			OPERATING HUMIDITY RANGE	--- % TO --- %				
	CURRENT	0.5 A			APPLICABLE CABLE	AWG28				
SPECIFICATIONS										
ITEM		TEST METHOD			REQUIREMENT			QT	AT	
CONSTRUCTION										
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING			X	X	
MARKING		CONFIRMED VISUALLY						X	X	
ELECTRICAL CHARACTERISTICS										
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz)			45 mΩ MAX.			X	-	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV MAX, 1 mA (DC OR 1000 Hz)			55 mΩ MAX.			X	-	
INSULATION RESISTANCE		250 V DC			100 MΩ MIN.			X	-	
VOLTAGE PROOF		300 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN			X	-	
MECHANICAL CHARACTERISTICS										
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR. (EXCEPT FOR THE PART OF LOCK)			INSERTION FORCE: 46N MAX. WITHDRAWAL FORCE 5.1N MIN.			X	X	
MECHANICAL OPERATION		500 TIMES INSERTION AND EXTRACTATIONS.			1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.			X	-	
VIBRATION		FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE: 0.76 mm AT 2 h FOR 3 DIRECTIONS.			1) NO ELECTRICAL DISCONTINUITY OF 1 μs 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.			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.			1) CONTACT RESISTANCE: 55 mΩ MAX. 2) INSULATION RESISTANCE: 100 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.			3) NO DAMAGE, CRACK AND LOOSENESS OF PART.			X	-	
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO HEAVY CORROSION.			X	-	
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA-38)						X	-	
REMARKS										
				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		
				<i>H. Kiriya</i>	<i>J. Watanabe</i>	<i>H. Okawa</i>	<i>J. Yamamoto</i>			
				00.10.14	00.10.14	00.10.14	00.10.16			
UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-1344.										
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST										
HS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. FX2B-52SA-1.27R			
CODE NO.(OLD)			DRAWING NO.		CODE NO.			1		
CL			ELC4-150613		CL 572 - 0624 - 0			1		

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