

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	AWG# 2 8			
SPECIFICATIONS									
ITEM		TEST METHOD			REQUIREMENT			QT	AT
CONSTRUCTION									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING			○	○
MARKING		CONFIRMED VISUALLY						○	○
ELECTRICAL CHARACTERISTICS									
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz)			45 mΩ MAX.			○	-
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV MAX, 1 mA (DC OR 1000 Hz)			55 mΩ MAX.			○	-
INSULATION RESISTANCE		250 V DC			100 MΩ MIN.			○	-
VOLTAGE PROOF		300 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN			○	-
MECHANICAL CHARACTERISTICS									
CONTACT INSERTION AND EXTRACTION FORCES		BY STEEL GAUGE.			INSERTION FORCE: N MAX. EXTRACTION FORCE: N MIN.			-	-
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR. (IN THE UNLOCKED STATE)			INSERTION FORCE: 71 N MAX. WITHDRAWAL FORCE 7.8 N MIN.			○	-
MECHANICAL OPERATION		500 TIMES INSERTION AND EXTRACTIONS.			1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.			○	-
VIBRATION		FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE: 0.76 mm, - m/s ² FOR 2 h IN 3 DIRECTIONS.			1) NO ELECTRICAL DISCONTINUITY OF 1 μs 2) CONTACT RESISTANCE: -- mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART.			○	-
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.						○	-
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90~95 %, 96 h.			1) CONTACT RESISTANCE: 55 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN.			○	-
RAPID CHAGE OF TEMPERTURE		TEMPERTURE-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.			○	-
DAMP HEAT,CYCLIC		EXPOSED AT TO °C, TO % TOTAL CYCLES(h).			1) CONTACT RESISTANCE: mΩ MAX. 2)INSULATION RESISTANCE: MΩ MIN.(AT HIGH HUMIDITY) 3)INSULATION RESISTANCE: MΩ MIN.(AT DRY) 4) NO DAMAGE, CRACK AND LOOSENESS OF PART.			-	-
DRY HEAT		EXPOSED AT °C, h.			1) CONTACT RESISTANCE: mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.			-	-
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO HEAVY CORROSION.			○	-
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD:JEIDA-38)						○	-
SULPHUR DIOXIDE		EXPOSED IN PPM FOR h. (TEST STANDARD:JEIDA-39)						-	-
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, FOR IMMERSION,DURATION, s.(MIL-STD-202)			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.			-	-
SOLDRABILITY		SOLDERED AT SOLDER TEMPERATURE, °C FOR IMMERSION DURATION, s.(MIL_STD_202)			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.			-	-
REMARKS				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-1344.				J. Takada	J. Takada	H. Okawa	M. Yamaguchi		
				97.7.3	97.7.3	97.07.03	97.07.04		
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST									
HRS HIROSE ELECTRIC CO.,LTD.				SPECIFICATION SHEET			PART NO. FX2BA-80SA-1.27R		
CODE NO.(OLD)		DRAWING NO.		CODE NO.				1	
CL		ELC4- 150664		CL 572 - 0677 - 7				1	

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