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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	-40 °C TO +125 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C (1)	
	VOLTAGE	50 V AC/DC	STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 85% MAX	
	CURRENT	1 A		(NOT DEWED)	
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	1A DC.		10 mΩ MAX .	x	-
CONTACT RESISTANCE	20 mV AC MAX, 0.1 mA(DC OR 1000Hz)		10 mΩ MAX .	x	-
MILLIVOLT LEVEL METHOD					
INSULATION RESISTANCE	500 V DC.		100 MΩ MIN.	x	-
VOLTAGE PROOF	1000 V AC FOR 1 min.		NO BREAKDOWN.	x	-
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	10 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
VIBRATION	SINE WAVE VIBRATION		① NO ELECTRICAL DISCONTINUITY OF 7ΩMIN , 1μs MIN.	x	-
	FREQUENCY 100~400Hz (ACCELERATION 100~150m/s ²) SWEEP TIME 1 oct/min		② CONTACT RESISTANCE: 20 mΩ MAX.	x	-
	RANDOM VIBRATION		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
	FREQUENCY 20~1500Hz (ACCELERATION 0.51~20(m/s ²) ²)				
	RMS ACCELERATION 105.5m/s ²				
	AT 22h FOR 3 DIRECTIONS. 				
SHOCK	981m/s ² DURATION OF PULSE 10ms AT 3 TIMES FOR 6 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 7ΩMIN , 1μs MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
LOCK STRENGTH	MEASURE BREAK STRENGTH OF THE LOCK BY PULLING THE CONNECTOR IN THE MATING DIRECTION.		① 100N MIN.	x	-
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 85 °C, 95±5 %, 240 h.		① CONTACT RESISTANCE: 20 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE- 40 →ROOM TEMP →125°C→ ROOM TEMP TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.		① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
DRY HEAT	EXPOSED AT 125°C, 1000 h.		① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
COLD	EXPOSED AT -40°C , 120 h.		① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
RESISTANCE TO SO ₂ GAS	EXPOSED IN 25 PPM AT 75% MIN FOR 96h.		① CONTACT RESISTANCE: 20 mΩ MAX.	x	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	1	DIS-T-00020363	AN. SAIKI	HH. TSUKUMO	20240306
REMARK			APPROVED	AH. EDASHIGE	20231013
NOTE1) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.			CHECKED	HH. TSUKUMO	20231013
			DESIGNED	TS. SHIMIZU	20231013
			DRAWN	TS. SHIMIZU	20231013
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-397752-00-00	
	SPECIFICATION SHEET		PART NO.	ZK1-32DP-HU	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0755-2200-0-00	 1/1