





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 105 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C	
	VOLTAGE	30 V AC	CURRENT	1 A	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	x	x	
MARKING	CONFIRMED VISUALLY.		x	x	
<b>ELECTRIC CHARACTERISTICS</b>					
CONTACT RESISTANCE	1A DC.	SIGNAL : 30 mΩ MAX, SHIELD : 60 mΩ MAX .	x	-	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	SIGNAL : 30 mΩ MAX, SHIELD : 60 mΩ MAX .	x	-	
INSULATION RESISTANCE	500 V DC	100 MΩ MIN.	x	-	
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	x	-	
<b>MECHANICAL CHARACTERISTICS</b>					
CONTACT INSERTION AND EXTRACTION FORCES	— BY STEEL GAUGE.	INSERTION FORCE — N MAX. EXTRACTION FORCE — N .	-	-	
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-	
VIBRATION	FREQUENCY 20 TO 200 Hz, 43.1 m/s <sup>2</sup> AT 3 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-	
SHOCK	ACCELERATION 980m/s <sup>2</sup> ,6ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-	
LOCK STRENGTH	APPLYING A PULL FORCE THE MATING AXIALLY AT 98N MAX.	① DURING APPLYING, MATING COMPLETELY. ② AFTER APPLYING, NO DEFECT OF MATING PARTS.	x	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-40→5 TO 35→ 85→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-	
DRY HEAT	EXPOSED AT 105°C, 1000 h.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-	
COLD	EXPOSED AT -40°C, 1000 h.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-	
RESISTANCE TO SO <sub>2</sub> GAS	EXPOSED IN 500 PPM FOR 8 h.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO HEAVY CORROSION.	x	-	
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	x	-	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245 °C FOR IMMERSION DURATION, 3 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	x	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	1	DIS-T-003805	NK. IKUTA	TS. KUBOTA	14.03.07
REMARK			APPROVED	NH. NAKATA	12.04.24
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			CHECKED	NH. NAKATA	12.04.24
(NOTE2) APPLICABLE BOARD : 1.6±0.2			DESIGNED	MH. SHOUJI	11.10.03
			DRAWN	MH. SHOUJI	11.10.03
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-168826-00	
	SPECIFICATION SHEET		PART NO.	GT32-19DP-0.75H	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL782-0009-3-00	 1/1