

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

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 105 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C			
	VOLTAGE	250 V AC	CURRENT	1 A			
<b>SPECIFICATIONS</b>							
ITEM	TEST METHOD			REQUIREMENTS		QT	AT
<b>CONSTRUCTION</b>		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X	X
GENERAL EXAMINATION		CONFIRMED VISUALLY.				X	X
<b>ELECTRIC CHARACTERISTICS</b>							
CONTACT RESISTANCE	1A DC.	SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX.				X	-
CONTACT RESISTANCE	20 mV AC MAX, 0.1 mA(DC OR 1000HZ)	SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX.				X	-
MILLIVOLT LEVEL METHOD						X	-
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.				X	-
VOLTAGE PROOF	660 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. WITHDRAWAL FORCE : - N MIN.				-	-
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X	-
VIBRATION	FREQUENCY 20 TO 400 HZ. 43.1 ms <sup>2</sup> AT 3h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X	-
SHOCK	FREQUENCY 20 TO 50 HZ. 66.6 ms <sup>2</sup> AT 1 h.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X	-
LOCK STRENGTH	APPLYING A PULL FORCE THE MATING AXIALLY AT 98 N 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:120mΩMAX 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:30 mΩ MAX, SHIELD:120mΩMAX ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X	-
DRY HEAT	EXPOSED AT 105°C, 300 h.	① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩMAX ② NO HEAVY CORROSION.				X	-
COLD	EXPOSED AT -55°C , 120 h.	① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩMAX ② NO HEAVY CORROSION.				X	-
CORROSION,SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 96 h.	① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩMAX ② NO HEAVY CORROSION.				X	-
RESISTANCE TO HSO <sup>3</sup> GAS	EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩMAX ② NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.				X	-
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE:260 °C FOR IMMERSION,DURATION,10s.	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 IMMERSERD.				X	-
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
△							
<b>REMARK</b>		APPROVED	AR. SHIRAI	10.02.02			
<b>NOTE1)</b> INCLUDE THE TEMPERATURE RISING BY CURRENT.		CHECKED	AR. SHIRAI	10.02.02			
		DESIGNED	MA. HARUBAYASHI	10.02.01			
		DRAWN	HA. SHIMIZU	10.02.01			
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-167242-02			
<b>HRS</b>		SPECIFICATION SHEET		GT17HN-4DP-2DS (A)			
		HIROSE ELECTRIC CO., LTD.		PART NO.		CODE NO.	
				CL767-0213-7-00		△	
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