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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	-30 °C TO +105 °C (NOTE1)		STORAGE TEMPERATURE RANGE	-40 °C TO +105 °C	
	VOLTAGE	250 V AC		CURRENT	1 A	
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.		CENTER CONTACT: 30 mΩ MAX. OUTER CONTACT: 60 mΩ MAX.		x	-
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(OR 1kHz)		CENTER CONTACT: 30 mΩ MAX. OUTER CONTACT: 60 mΩ MAX.		x	-
INSULATION RESISTANCE	500 V DC		100 MΩ MIN.		x	-
VOLTAGE PROOF	650 V AC FOR 1 MIN.		NO FLASHOVER OR BREAKDOWN.		x	-
MECHANICAL CHARACTERISTICS						
CONTACT INSERTION AND EXTRACTION FORCES	φ4.5 BY STEEL GAUGE.		INSERTION FORCE 29.4 N MAX. WITHDRAWAL FORCE 2.9 N MIN.		x	-
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.		① CENTER CONTACT: 60 mΩ MAX. OUTER CONTACT: 120 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	-
VIBRATION	FREQUENCY 20 TO 200 Hz, 43.1m/s ² , AT 3h FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CENTER CONTACT: 60 mΩ MAX. OUTER CONTACT: 120 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	-
SHOCK	FREQUENCY 20 TO 50 Hz, 66.6m/s ² AT 1 h.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CENTER CONTACT: 60 mΩ MAX. OUTER CONTACT: 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	-
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT (STEADY STATE)	EXPOSED AT 60°C, 90 TO 95%, 500h.		① CENTER CONTACT: 60 mΩ MAX. OUTER CONTACT: 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 CENTER CONTACT: 60 mΩ MAX. OUTER CONTACT: 120 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	-
DRY HEAT	EXPOSED AT 105°C, 300h.		① CENTER CONTACT: 60 mΩ MAX. OUTER CONTACT: 120 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	-
COLD	EXPOSED AT -55°C, 120h.		① CENTER CONTACT: 60 mΩ MAX. OUTER CONTACT: 120 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	-
RESISTANCE TO HSO ₃ GAS	EXPOSED IN 500 PPM FOR 8h.		① CENTER CONTACT: 60 mΩ MAX. OUTER CONTACT: 120 mΩ MAX.		x	-
RESISTANCE TO SOLDERING HEAT	TOP OF IRON 350°C, 10 sec.		NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		x	-
SOLDERABILITY	TOP OF IRON 350°C, 3 sec.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.		x	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
REMARK				APPROVED	NH.NAKATA	15.09.03
NOTE1)		INCLUDE THE TEMPERATURE RISING BY CURRENT.		CHECKED	KI.HIROKAWA	15.09.03
NOTE2)		RECOMMENDED PCB THICKNESS: 1.6mm.		DESIGNED	ming.jiang	15.08.24
				DRAWN	ming.jiang	15.08.24
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-166309-00-00		
	SPECIFICATION SHEET		PART NO.	GT16C-1P-DS (B)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL766-0063-0-00		1/1