

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		
	CHARACTERISTIC IMPEDANCE	50 Ω					
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	—
VOLTAGE STANDING WAVE RATIO		FREQUENCY 0 TO 6 GHz		VSWR 1.5 MAX.		x	—
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND EXTRACTION FORCES		φ 4.5 BY STEEL GAUGE.		INSERTION FORCE 29.4 N MAX. WITHDRAWAL FORCE 2.9 N MIN.		x	—
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: CENTER CONTACT 60 mΩ MAX . OUTER CONTACT 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	—
VIBRATION		FREQUENCY 20 TO 400 Hz, 43.1m/s ² , AT 3h FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 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 CONTACT RESISTANCE: 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 CONTACT RESISTANCE: 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 CONTACT RESISTANCE: 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 CONTACT RESISTANCE: CENTER CONTACT 60 mΩ MAX . OUTER CONTACT 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	—
COLD		EXPOSED AT -40°C, 120h.		① CONTACT RESISTANCE: CENTER CONTACT 60 mΩ MAX . OUTER CONTACT 120 mΩ MAX . ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	—
RESISTANCE TO SO ₂ GAS		EXPOSED IN 500 PPM FOR 8h.		① CONTACT RESISTANCE: CENTER CONTACT 60 mΩ MAX . OUTER CONTACT 120 mΩ MAX . ② NO HEAVY CORROSION.		x	—
RESISTANCE TO SOLDERING HEAT		EXPOSE 2 TIMES AT SPECIFIED TEMPERATURE PROFILE.		NO DEFORMATION IN 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		
△							
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.				APPROVED	KI. HIROKAWA	20200608	
				CHECKED	MO. OKADA	20200608	
				DESIGNED	HK. WATANABE	20200605	
				DRAWN	YK. MITSUISHI	20200309	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-166246-55-00		
HRS	SPECIFICATION SHEET		PART NO.	GT16GD-1P-H(55)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL766-0044-5-55			
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