

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 — 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 — x —	
VIBRATION		FREQUENCY 20 TO 200 Hz, 43.1m/s <sup>2</sup> , 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 — x — x —	
SHOCK		FREQUENCY 20 TO 50 Hz,66.6m/ s <sup>2</sup> 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 — x — 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 — 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 — x — 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 — x — 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 — x —	
COLD		EXPOSED AT -55°C, 120h.		① CONTACT RESISTANCE: CENTER CONTACT 60 mΩ MAX. OUTER CONTACT 120 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x — x —	
RESISTANCE TO SO <sub>2</sub> 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 — 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 IMMersed.		x —	
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE
△							
REMARK				APPROVED	KI. HIROKAWA	20200331	
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.				CHECKED	MO. OKADA	20200331	
(NOTE2) A CONFORMITY BOARD THICKNESS IS 1.6mm.				DESIGNED	NK. IKUTA	20200331	
				DRAWN	YK. MITSUISHI	20200318	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-165983-55-00	
HRS	SPECIFICATION SHEET			PART NO.	GT16G-1P-H (55)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL766-0021-0-55		
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