





APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +125 °C (Note 1)		STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C (Note 2)
	VOLTAGE	60 V AC/DC		STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 85% MAX
	CURRENT	2 A			(NOT DEWED)
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 MILLIVOLT LEVEL METHOD	20 mV AC MAX, 1 mA(DC OR 1000Hz)	30 mΩ MAX .	X	-	
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	X	-	
VOLTAGE PROOF	300 V AC FOR 1 min.	NO BREAKDOWN.	X	-	
<b>MECHANICAL CHARACTERISTICS</b>					
MECHANICAL OPERATION	10 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
VIBRATION	FREQUENCY 5 TO 600Hz (5 TO 14.9Hz:16.5mm(p-p), 14.9 TO 600Hz:73.0m/s <sup>2</sup> ) AT 3h FOR 8 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 7ΩMIN , 1μs MIN. ② CONTACT RESISTANCE: 50 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
SHOCK	500m/s <sup>2</sup> DURATION OF PULSE 10ms AT 10 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 7ΩMIN , 1μs MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
LOCK STRENGTH	MEASURE BREAK STRENGTH OF THE LOCK BY PULLING THE CONNECTOR IN THE MATING DIRECTION.	① 25 N MIN	X	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b> 					
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE:500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40→5 TO 35→125→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.	① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
DRY HEAT	EXPOSED AT 125°C, 1000 h.	① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
COLD	EXPOSED AT -40°C, 1000 h.	① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
RESISTANCE TO SOLDERING HEAT	SPECIFIED TEMPERATURE PROFILE FOR 2CYCLES.	NO DEFORMATION OF CASE AND EXCESSIVE DISTORTION OF THE TERMINALS.	X	-	
SOLDERABILITY	SOLDERED AT SPECIFIED TEMPERATURE PROFILE.	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-00013143	YT. TAKANASHI	OM. MIYAMOTO	20220303
REMARK			APPROVED	HK. UMEHARA	20210624
(NOTE1) Include the temperature rising by current.			CHECKED	OM. MIYAMOTO	20210624
(NOTE2) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.			DESIGNED	YT. TAKANASHI	20210624
			DRAWN	YT. TAKANASHI	20210624
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-392587-00-00
	SPECIFICATION SHEET		PART NO.	GT50-4P-1H	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0760-1004-0-00	 1/1