

APPLICABLE STANDARD								
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				
SPECIFICATIONS								
ITEM		TEST METHOD		REQUIREMENTS		QT	AT	
CONSTRUCTION								
General examination		Visually and by measuring instrument.		According to drawing.		×	×	
Marking		Confirmed visually.				×	×	
ELECTRIC CHARACTERISTICS								
Contact resistance		1A DC.		Signal: 30mΩ MAX, Shield: 60mΩ MAX.		×	—	
Contact resistance Millivolt level method		20 mV AC max, 0.1 mA(DC or 1000Hz)		Signal: 30mΩ MAX, Shield: 60mΩ MAX.		×	—	
Insulation resistance		500 V DC		100MΩ MIN		×	—	
Voltage proof		650 V AC for 1 min.		No flashover or breakdown.		×	—	
MECHANICAL CHARACTERISTICS								
Mechanical operation		30 times insertions and extractions.		① Contact resistance: Signal: 60mΩ MAX, Shield: 120mΩ MAX. ② No damage, crack and looseness of parts.		×	—	
Vibration		Frequency 20 to 200 Hz, 43.1 m/s <sup>2</sup> at 3h for 3 directions.		① No electrical discontinuity of 10μs. ② Contact resistance: Signal: 60mΩ MAX, Shield: 120mΩ MAX. ③ No damage, crack and looseness of parts.		×	—	
Shock		Frequency 20 to 50 Hz, 66.6 m/s <sup>2</sup> at 1h.		① No electrical discontinuity of 10μs. ② Contact resistance: Signal: 60mΩ MAX, Shield: 120mΩ MAX. ③ No damage, crack and looseness of parts.		×	—	
Lock strength		Apply a pull force of up to 98N in the axial direction.		① During applying,mating completely. ② After applying, no defect of mating parts.		×	—	
ENVIRONMENTAL CHARACTERISTICS								
Damp heat (Steady state)		Exposed at 60 °C, 90 to 95 %, 500h.		① Contact resistance: Signal: 60mΩ MAX, Shield: 120mΩ MAX. ② Insulation resistance: 100MΩ MIN. ③ No damage, crack and looseness of parts.		×	—	
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: 60mΩ MAX, Shield: 120mΩ MAX. ② Insulation resistance: 100MΩ MIN. ③ No damage, crack and looseness of parts.		×	—	
Dry heat		Exposed at 105°C, 1000 h.		① Contact resistance: Signal: 60mΩ MAX, Shield: 120mΩ MAX. ② No damage, crack and looseness of parts.		×	—	
Cold		Exposed at -40°C, 1000 h.		① Contact resistance: Signal: 60mΩ MAX, Shield: 120mΩ MAX. ② No damage, crack and looseness of parts.		×	—	
Resistance to SO <sub>2</sub>		Exposed in 500 ppm for 8h.		Contact resistance: Signal: 60mΩ MAX, Shield: 120mΩ MAX.		×	—	
Resistance to soldering heat		2 times reflow at specified temperature profile. (Note2)		No deformation of case of excessive looseness of the terminals.		×	—	
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED		DATE
△0								
REMARK <small>Note 1)</small> Include the temperature rising by current. <small>Note 2)</small> Refer to the submitted drawing for Profile.				APPROVED	KI. HIROKAWA	20210621		
				CHECKED	EJ. WAKATSUKI	20210621		
				DESIGNED	YK. KANNO	20210621		
				DRAWN	YK. KANNO	20210621		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-168892-68-00		
HRS	SPECIFICATION SHEET			PART NO.	GT17HN2-4DP-2H (A) (68)			
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL0767-0267-6-68	△0	1/1	