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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	-40 °C to +105 °C (Note1)	Storage temperature range	-10 °C to +60 °C (Note2)	
	Current	1 A	Voltage	30 V AC	
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.	Signal: 30mΩ MAX, Shield: 60mΩ MAX.	x	-	
Contact resistance Millivolt level method	20mV AC max, 0.1mA (DC or 1000Hz).	Signal: 30mΩ MAX, Shield: 60mΩ MAX.	x	-	
Insulation resistance	500V DC.	100MΩ MIN.	x	-	
Withstand voltage	500V AC for 1 min.	No breakdown.	x	-	
MECHANICAL CHARACTERISTICS					
Mechanical operation	30 insertions and removals.	① Contact resistance : Signal: 60mΩ MAX, Shield: 120mΩ MAX . ② No damage, crack and looseness of parts.	x	-	
Vibration	Frequency 20 to 200 Hz, 43.1m/s ² at 3h for 3directions.	① No electrical discontinuity greater than 1μs. ② Contact resistance : Signal: 60mΩ MAX, Shield: 120mΩ MAX . ③ No damage, crack and looseness of parts.	x	-	
Shock	980m/s ² ,6ms at 3times for 3directions.	① No electrical discontinuity greater than 1μs. ② Contact resistance : Signal: 60mΩ MAX, Shield: 120mΩ MAX . ③ No damage, crack and looseness of parts.	x	-	
Lock strength	Connectors mated and the lock in place, apply an axial pull-out load to the plug connector. Operation speed 100mm/min.	Connector Locking strength 98N MIN.	x	-	
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.	x	-	
Thermal shock	Temperature-40°C(30min)→5 to 35°C(5min or less)→ 85°C(30min)→5 to 35°C(5min or less) 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.	x	-	
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.	x	-	
Cold	Exposed at -40°C , 1000 h.	① Contact resistance : Signal: 60mΩ MAX, Shield: 120mΩ MAX . ② No damage, crack and looseness of parts.	x	-	
Resistance to SO ₂	Exposed in 500ppm for 8h.	Contact resistance : Signal: 60mΩ MAX, Shield: 120mΩ MAX .	x	-	
Resistance to soldering heat	Reflow soldering at specified temperature profile 2 times. (Note3)	No deformation of case of excessive looseness of the terminals.	x	-	
Solderability	Soldering at solder temperature 245°C for immersion duration 3s.	Immersed area is wetted 95% or more with solder (Plated surface only).	x	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	KI. HIROKAWA	20211017
Note 1) Include the temperature rising by current.			CHECKED	EJ. WAKATSUKI	20211015
Note 2) Refers to long-term storage in the delivered state.			DESIGNED	YK. KANNO	20211015
Note 3) Refer to the submitted drawings for the temperature profile.			DRAWN	YK. KANNO	20211015
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-393578-11-00
HRS	SPECIFICATION SHEET		PART NO.	GT32J-4DP-1. 5H (11)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	GL0782-0085-0-11	△ 1/1