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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℃ to 105℃ (Note1)	STORAGE TEMPERATURE RANGE	-40℃ to 105℃
	VOLTAGE	50 V DC	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.	50mΩ max.	—	—
Contact Resistance Millivolt Level Method	20 mV AC max, 0.1 mA (DC or 1000Hz).	50mΩ max.	—	—
Insulation Resistance	500 V DC.	100MΩ min.	—	—
Voltage Proof	500 V AC for 1 min.	No flashover or breakdown.	×	×
Continuity	100 mA DC	Continuity	—	×
MECHANICAL CHARACTERISTICS				
Mechanical Oparation	30 times insertions and extractions.	① Contact resistance 100mΩ max ② No damage, crack and looseness of parts.	— ×	— —
Vibration	Frequency 20 to 200 Hz, 43.1 m/s^2 at 3 h for 3 directions.	① No electrical discontinuity of 10μs. ② Contact resistance: 100mΩ max. ③ No damage, crack and looseness of parts.	— — —	— — —
Shock	Frequency 20 to 50 Hz, 66.6 m/s^2 at 1 h.	① No electrical discontinuity of 10μs. ② Contact resistance: 100mΩ max. ③ No damage, crack and looseness of parts.	— — —	— — —
Lock Strength	Applying a pull force the mating axially at 100N max.	① During applying, mating completely. ② After applying, no defect of mating parts.	— —	— —
ENVIRONMENTAL CHARACTERISTICS				
Damp Heat (Steady State)	Exposed at 60℃, 90 ～ 95 %, 500h.	① Contact resistance: 100mΩ max. ② Insulation resistance:100MΩ min. ③ No damage, crack and looseness of parts.	— — —	— — —
Rapid Change Of Temperature	Temperature -40 → 5 to 35 → 105→ 5 to 35℃ Time 30 → 5 → 30 → 5 min under 1000 cycles.	① Contact resistance: 100mΩ max. ② Insulation resistance:100MΩ min. ③ No damage, crack and looseness of parts.	— — —	— — —
Dry Heat	Exposed at 105℃, 300h.	① Contact resistance: 100mΩ max. ② No damage, crack and looseness of parts.	— —	— —
Cold	Exposed at -40℃, 120h.	① Contact resistance: 100mΩ max. ② No damage, crack and looseness of parts.	— —	— —
Resistance To So$_2$ Gas	Exposed in 25 ppm for 96h.	① Contact resistance: 100mΩ max. ② No damage, crack and looseness of parts.	— —	— —

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

REMARK
Note1) Include the temperature rising by current.

APPROVED	KI.HIROKAWA	20211223
CHECKED	MH.YAMAGUCHI	20211223
DESIGNED	HR.IWAI	20211223
DRAWN	HR.IWAI	20211223

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-395703-00-00

HRS	SPECIFICATION SHEET	PART NO.	WGT43GT43-1190	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0781-1190-0-00	△0 1/1