

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.	x	x
Marking		Confirmed visually.		x	x
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.	x	x
Continuity	100 mA DC		Continuity	—	x
MECHANICAL CHARACTERISTICS					
Mechanical Operation	30 times insertions and extractions.		① Contact resistance 100mΩ max ② No damage, crack and looseness of parts.	— x	— —
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	
①					
REMARK			APPROVED	KI. HIROKAWA	20211223
Note1) Include the temperature rising by current.			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	① 1/1