

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 Operation		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
①					
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-395704-00-00
	SPECIFICATION SHEET		PART NO.	WGT43GT43-1191	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0781-1191-0-00	 1/1