

APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-40°C to 105°C (Note1)		STORAGE TEMPERATURE RANGE	-40°C to 105°C	
	VOLTAGE	50 V DC		CURRENT	1 A	
SPECIFICATIONS						
ITEM		TEST METHOD		REQUIREMENTS		QT   AT
<b>CONSTRUCTION</b>						
General Examination		Visually and by measuring instrument.		According to drawing.		x   x
Marking		Confirmed visually.				x   x
<b>ELECTRIC CHARACTERISTICS</b>						
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
<b>MECHANICAL CHARACTERISTICS</b>						
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 <sup>2</sup> 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 <sup>2</sup> 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.		-   - -   -
<b>ENVIRONMENTAL CHARACTERISTICS</b>						
Damp Heat (Steady State)		Exposed at 60°C, 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°C 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°C, 300h.		① Contact resistance: 100mΩ max. ② No damage, crack and looseness of parts.		-   - -   -
Cold		Exposed at -40°C, 120h.		① Contact resistance: 100mΩ max. ② No damage, crack and looseness of parts.		-   - -   -
Resistance To So2 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	
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	
	SPECIFICATION SHEET		PART NO.	WGT43GT43-1190		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0781-1190-0-00		1/1