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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	-40°C to 105°C	
	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.			--	--
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°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 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	
	△					
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-395704-00-00		
HRS	SPECIFICATION SHEET		PART NO.	WGT43GT43-1191		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0781-1191-0-00	△	1/1