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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	-10 °C to +60 °C	Storage Temperature Range	- °C to - °C	
	Voltage	30 V	Operating Humidity Range	- % to - %	
	Current	1 A	Applicable Wire	-	
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
ELECTRICAL CHARACTEREISTICS					
Contact Resistance		Measured at 100 mA max (DC or 1000 Hz).	50 mΩ max.	X	X
Insulation Resistance		500 V DC	1000 MΩ min.	X	X
Voltage Proof		500 V AC. for 1 min.	No flashover or breakdown.	X	X
MECHANICAL CHARACTERISTICS					
Mating and Unmating Forces		Measured with an applicable connector.	Mating force : 4 N min. Unmating force : 40 N max.	X	—
Mechanical Operation		Mated and unmated 1000 times.	① Contact resistance : 60 mΩ max. ② No damage, crack and looseness of parts.	X	—
Vibration		Frequency : 10 to 55 Hz, singe amplitude 0.75 mm, at 2h for 3 axial directions.	① No electrical discontinuity of 10 μs min. ② No damage, crack and looseness of parts.	X	—
Shock		490 m/s ² duration of pulse 11 ms for 3 times in 3 both axial directions.		X	—
ENVIRONMENTAL CHARACTERISTICS					
Rapid Change of Temperature		Temperature -55 → 5 to 35 → 85 → 5 to 35 °C Time 30 → 5 max → 30 → 5 max min Under 5 cycles.	① Contact resistance : 60 mΩ max. ② Insulation resistance : 1000 MΩ min. ③ No damage, crack and looseness of parts.	X	—
Humidity Life		Exposed at 40 °C, 90 to 95 %, 96 h.	① Contact resistance : 60 mΩ max. ② Insulation resistance : 1000 MΩ min. ③ No damage, crack and looseness of parts.	X	—
Hydrogen Sulphide		Exposed in 3 ppm, 96 h.	① Contact resistance : 60 mΩ max. ② No heavy corrosion which impairs functionality.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	RI. TAKAYASU	18. 05. 31
			CHECKED	KI. NAGANUMA	18. 05. 30
			DESIGNED	JY. IGA	18. 05. 30
			DRAWN	JY. IGA	18. 05. 30
Unless otherwise specified, refer to IEC 60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-120810-50-03	
HRS	SPECIFICATION SHEET		PART NO.	QR/P15-40S (50)	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL221-0253-3-50	△ 1/1