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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	-55°C to 85°C (Note 1)	Storage Temperature Range	-10°C TO 60°C	
	Voltage	30V AC/DC			
	Current	Signal contact : 0.3A			
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
General Examination	Visually and by measuring instrument.		According to drawing.	X	X
Marking	Confirmed visually.		According to drawing.	X	X
ELECTRIC CHARACTERISTICS					
Contact Resistance	20mV AC or less 1kHz,1m A .		Signal contact resistance: 100 mΩ MAX.	X	—
Insulation Resistance	100V DC.		100 MΩ MIN.	X	—
Voltage Proof	150V AC for 1 min.		No flashover or breakdown.	X	—
Voltage Standing Wave Ratio	Frequency 0 ~ 3 GHz		VSWR 1.3 Max.	X	—
	Frequency 3 ~ 6 GHz		VSWR 1.4 Max.		
	Frequency 6 ~ 12 GHz		VSWR 1.6 Max		
MECHANICAL CHARACTERISTICS					
Mechanical Operation	10times insertions and extractions.		① Signal contact resistance: 100 mΩ MAX. ② No damage, crack or looseness of parts.	X	—
Vibration	Frequency 10 to 55 to 10 Hz, approx 5min, Single amplitude 0.75 mm,10cycles, for 3 directions.		① No electrical discontinuity of 1 μs. ② No damage, crack or Looseness of parts.	X	—
Shock	490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.		① No electrical discontinuity of 1 μs. ② No damage, crack or looseness of parts.	X	—
Insertion and Withdrawal forces	Measured by applicable connector. 30times insertions and withdrawal. Test speed 10mm/min.		① Insertion forces: 30N MAX. ② Withdrawal forces: 4N MIN.	X	—
ENVIRONMENTAL CHARACTERISTICS					
Rapid Change of Temperature	Temperature -55 → +85°C Time 30 → 30 min Under 5 cycles. (Relocation time to chamber : within 2-3 min)		① Signal contact resistance: 100 mΩ MAX. ② Insulation resistance: 100MΩ MIN. ③ No damage, crack or looseness of parts.	X	—
Damp Heat (Steady state)	Exposed at 40 ± 2 °C, 90 to 95 %, 96 h.		① Signal contact resistance: 100 mΩ MAX. ② Insulation resistance: 50MΩ MIN. ③ No damage, crack or looseness of parts.	X	—
Sulfur Dioxide	Exposed in 25 PPM for 96h, 25°C, 75%. (Refer to IEC 60068-2-42 Test Kc)		Signal contact resistance: 100 mΩ MAX.	X	—
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△					
REMARKS			APPROVED	WR. FUKUCHI	18.07.21
Note1: Include the temperature rising by current			CHECKED	TY.001	18.07.21
Unless otherwise specified, refer to IEC 60512.			DESIGNED	RH. KITAGAWA	18.07.21
			DRAWN	SN. NUMAZAKI	18.07.21
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC-378955-51-03	
HRS	SPECIFICATION SHEET		PART NO.	BM46B-12DS-0.35V (51)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL673-7054-0-51	△ 1/1