

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT
RATING	OPERATING TEMPERATURE RANGE	-35°C TO 85°C (NOTE 1)	STORAGE TEMPERATURE RANGE			-10°C TO 60°C	
	VOLTAGE	50V AC/DC	APPLICABLE CONNECTOR			BM22-4S-V (**)	
	CURRENT	SIGNAL CONTACT : 0.3A POWER CONTACT : 4.0A					
SPECIFICATIONS							
ITEM	GENERAL EXAMINATION			REQUIREMENTS			
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.			
MARKING		CONFIRMED VISUALLY.					
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE		20mV AC OR LESS 1KHz,1m A.		Signal contact resistance: 50 mΩ MAX. Power contact resistance: 30 mΩ MAX.		X	-
INSULATION RESISTANCE		100V DC.		100MΩ MIN.		X	-
VOLTAGE PROOF		150V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	-
MECHANICAL CHARACTERISTICS							
MECHANICAL OPERATION		10TIMES INSERTIONS AND EXTRACTIONS.		① Signal contact resistance: 50 mΩ MAX. Power contact resistance: 30 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,100CYCLES, 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	-
ENVIRONMENTAL CHARACTERISTICS							
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → +85°C 30 → 30 min UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER : WITHIN 2.3 min)		① Signal contact resistance: 50 mΩ MAX. Power contact resistance: 30 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: 50 mΩ MAX. Power contact resistance: 30 mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-
SULPHUR DIOXIDE		EXPOSED IN 25 PPM FOR 96h,25°C,75%. (REFER TO JIS C 60068)		① Signal contact resistance: 50 mΩ MAX. Power contact resistance: 30 mΩ MAX. ② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.		X	-
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
△							
REMARKS							
NOTE1 : INCLUDE THE TEMPERATURE RISING BY CURRENT							
Unless otherwise specified, refer to JIS C 5402 and IEC 60512.							
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-354825-02			
HRS		SPECIFICATION SHEET		PART NO.		BM22L-4P-V(51)	
HIROSE ELECTRIC CO., LTD.		CODE NO.		CL677-1006-7-51		△ 1/1	