

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

APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE	-25°C TO +85°C	STORAGE TEMPERATURE RANGE	-25°C TO +60°C
RATING	OPERATING&STORAGE HUMIDITY RANGE	85%MAX	—	—	—
	VOLTAGE	AC 125V	CURRENT	0.5 A	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS			
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.			
MARKING	CONFIRMED VISUALLY.				
ELECTRICAL CHARACTERISTICS					
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	1) 2) USING IDC TYPE : 50mΩ MAX. (SIGNAL) 1) 1) 3) USING SOLDER TYPE : 65mΩ MAX. (SIGNAL)	X	—	
INSULATION RESISTANCE	100 V DC.	1000 MΩ MIN.	X	—	
VOLTAGE PROOF	250 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X	X
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE 30N MAX. WITHDRAWAL FORCE 3 N MIN.	X	—	
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTATIONS.	1) CONTACT RESISTANCE 1) 1) 2) USING IDC TYPE : 70mΩ MAX. 3) USING SOLDER TYPE : 85mΩ MAX.	X	—	
VIBRATION	FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm, 5 min/CYCLE. TOTAL 10 CYCLES.	1) NO ELECTRICAL DISCONTINUITY OF 10 μs 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—	
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	—	
ENVIRONMENTAL CHARACTERISTICS					
THERMAL SHOCK	TEMP -55 →+5 TO +35 →+85 →+5 TO +35 °C TIME 30 → 5 → 30 → 5 min. UNDER 5 CYCLES.	1) CONTACT RESISTANCE 1) 1) 2) USING IDC TYPE : 70mΩ MAX. 3) USING SOLDER TYPE : 85mΩ MAX.	X	—	
HUMIDITY LIFE	TEMPERATURE 40 °C, HUMIDITY 90 TO 95 %, FOR 96 h	1) INSULATION RESISTANCE: 100 MΩ MIN. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—	
CORROSION SALT MIST	EXPOSED AT 5 % SALT WATER, FOR 48 h.	NO HEAVY CORROSION THAT LOSE FUNCTION.	X	—	
REVISIONS					
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
5	DI S-E-003449	TY. M URA	AH. KODAMA	10. 10. 13	
REMARK					
1) EXCLUDES CONDUCTOR RESISTANCE OF CABLE. 2) EXAMINATION IS HELD WITH "DH-27-CT*B", "DH3*B-27S" AND "DH80A-27P". (PLUG : IDC TYPE) 3) EXAMINATION IS HELD WITH "DH-27-CT*B", "DH40-27S" AND "DH80A-27P". (PLUG : SOLDER TYPE)					
Unless otherwise specified, refer to JIS C 5402.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-127044-00		
HRS SPECIFICATION SHEET		PART NO.	DH80A-27P		
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL244-0052-5-00		1/1