

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

APPLICABLE STANDARD			STORAGE TEMPERATURE RANGE
RATING	OPERATING TEMPERATURE RANGE	-40°C TO 85°C	-40°C TO 60°C
	VOLTAGE	125 V AC	5 %RH TO 95 %RH
	CURRENT	No.2 to No.17 : 0.5 A No.1 AND No. 18 : 1.5 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	100 mA (DC OR 1000 Hz).	70 mΩ MAX.	X	-
INSULATION RESISTANCE	250 V DC.	1000 MΩ MIN.	X	-
VOLTAGE PROOF	350 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X

MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	25 N MAX.	X	-
MECHANICAL OPERATION	20,000 TIMES INSERTIONS AND EXTRACTIONS.	1) AMOUNT OF CHANGE OF CONTACT RESISTANCE : 20mΩ MAX 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm, AT 2h, FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 10μs. 2) AMOUNT OF CHANGE OF CONTACT RESISTANCE : 20mΩ MAX 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	CONTACT RESISTANCE : 20mΩ MAX NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-

ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 60°C . 90~95%. 96h	1) AMOUNT OF CHANGE OF CONTACT RESISTANCE : 20mΩ MAX 2) INSULATION RESISTANCE: 1000 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 5-35 → +85 → 5-35 °C TIME 30 → 2-3 → 30 → 2-3 min. UNDER 5 CYCLES.			
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	X	-
MIXED GAS CORROSION	EXPOSED IN SO ₂ 10 ppm , H ₂ S 3ppm 70 TO 80% R.H. FOR 96 h			
RESISTANCE TO SOLDERING HEAT (REFLOW)	REFLOW/TWICE UNDER THERECOMMENDED REFLOW TEMPERATURE PROFILE IN FIG-1	NO SIGNIFICANT DEFOMATION OR LOSSNESS OF CONTACTS.	X	-
RESISTANCE TO SOLDERING, SOLDER IRON METHOD	TEMPERATURE OF SOLDERING IRON : 390°C MAX, 3 sec MAX	NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	-

RECOMMENDED REFLOW PROFILE IN FIG-1

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△				
REMARK				
Unless otherwise specified, refer to JIS C 5402.				
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-127060-00	
		APPROVED	MF. MIYAZAKI	10.03.25
		CHECKED	TA. ASO	10.03.25
		DESIGNED	KO. KAWAMURA	10.03.25
		DRAWN	KO. KAWAMURA	10.03.25

HRS		DRAWING NO.		ELC4-127060-00	
SPECIFICATION SHEET		PART NO.	3880-B-18P		
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL238-2008-2-00	△	1/2

ATTACHMENT FIGURE

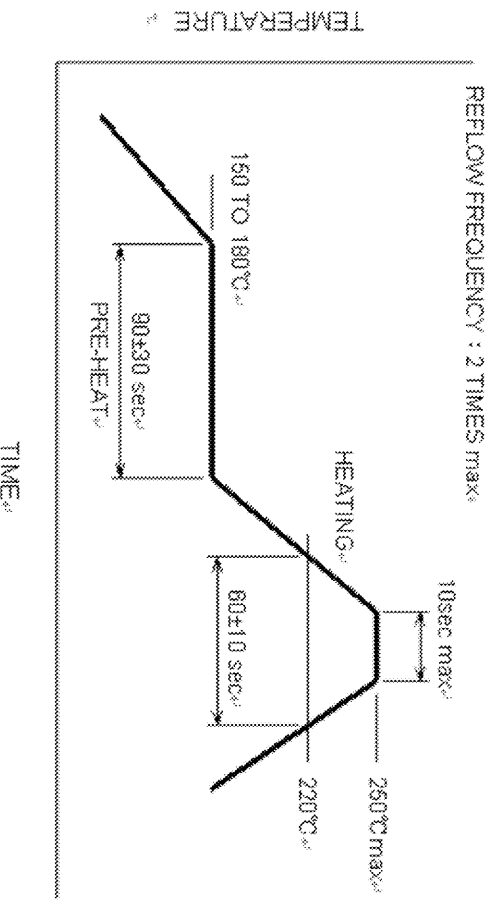


FIG-1

Note		QT:Qualification Test	AT:Assurance Test	X:Applicable Test
HRS	SPECIFICATION SHEET	DRAWING NO.		ELC4-127060-00
	HIROSE ELECTRIC CO., LTD.	PART NO.	3880-B-18P	
		CODE NO	GL238-2008-2-00	
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