

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△				..	△				..
△				..	△				..

APPLICABLE STANDARD

RATING	OPERATING TEMPERATURE RANGE	-30 °C TO 85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C
	VOLTAGE	250 V	OPERATING HUMIDITY RANGE	% TO %
	CURRENT	2 A	APPLICABLE CABLE	

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
------	-------------	--------------	----	----

CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		○	○

ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	30 mΩ MAX.	○	-
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.	20 mV MAX. mA (DC OR 1000 Hz).			
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.	○	-
VOLTAGE PROOF	650 V AC FOR 1 min	NO FLASHOVER OR BREAKDOWN.	○	-

MECHANICAL CHARACTERISTICS

CONTACT INSERTION AND EXTRACTION FORCES	□ 0.5 ± 0.002 BY STEEL GAUGE.	INSERTION FORCE 4.9 N MAX. EXTRACTION FORCE 0.3 N MIN.	○	-
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.		-
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS	① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	-
VIBRATION	FREQUENCY 10 TO 55 Hz. TOTAL AMPLITUDE 0.75 mm. — mm/s ² AT 3 1/2 FOR 2 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF / s. ② CONTACT RESISTANCE: mΩ MAX.	○	-
SHOCK	490 mm/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTION.	① NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	-

ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C. 90 ~ 95% RH. 96 h.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	-
DAMP HEAT, CYCLIC	EXPOSED AT °C. TO °C. X. CYCLES. TOTAL h.	① CONTACT RESISTANCE: mΩ MAX. ② INSULATION RESISTANCE: NO MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: NO MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 -15-35- 85-15-35 °C TIME 30 -10-15- 30 -10-15 min UNDER CYCLES.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	-
DRY HEAT	EXPOSED AT °C. h.	① CONTACT RESISTANCE: mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		-
CORROSION SALT MIST	EXPOSED IN % SALT WATER SPRAY FOR h.	① CONTACT RESISTANCE: mΩ MAX. ② NO HEAVY CORROSION.		-

RESISTANCE TO SOLDERING HEAT	AFTER IMMERSION OF THE CONTACT IN THE SOLDER BATH AT 260 °C ± 5 °C FOR 10 SEC. THERE SHALL BE NO PHYSICAL OR ELECTRICAL DAMAGE. THERE SHALL BE NO MELTING INSULATOR OR DEFECT.	○	-
SOLDERABILITY	AFTER IMMERSION OF THE CONTACT IN THE SOLDER BATH AT 230 °C ± 5 °C. A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % IMMERSED.	○	-

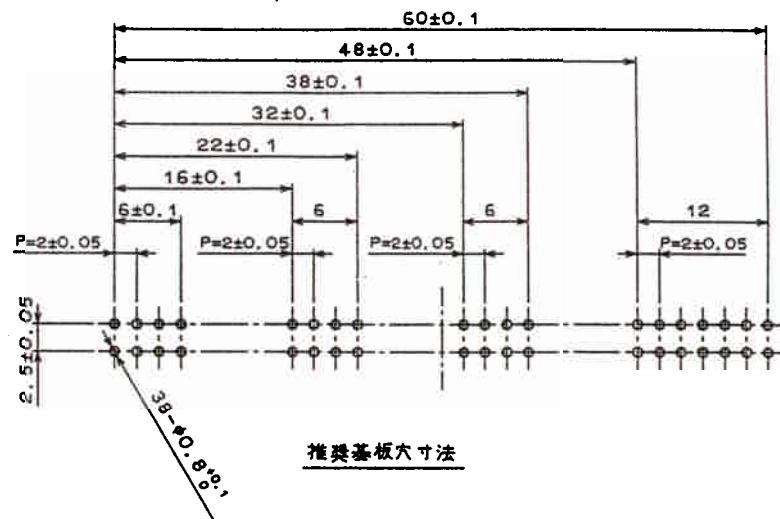
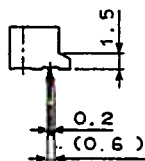
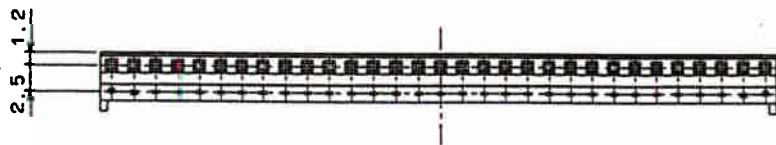
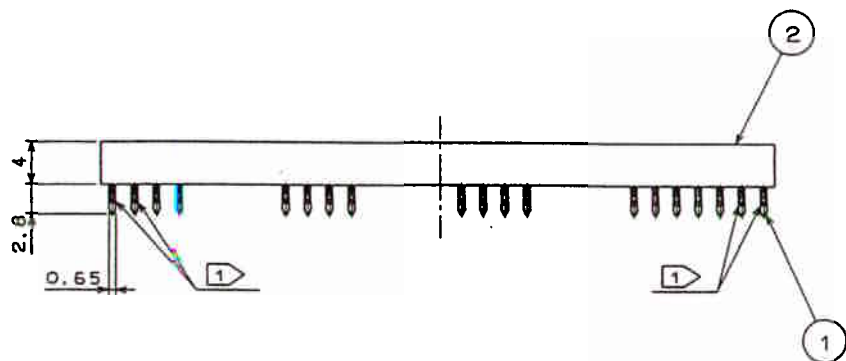
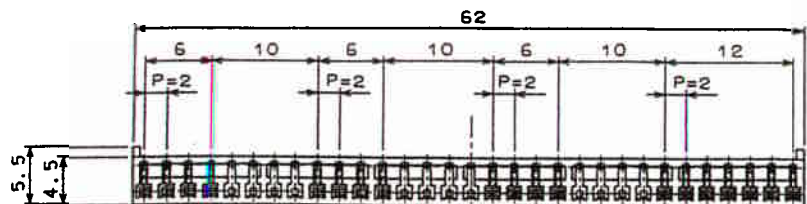
REMARKS (I) This figure includes the temperature rise due to the conduction of electricity passing through. Unless otherwise specified, refer to ~~HS-500~~ MIL-STD-1344

DRAWN DESIGNED CHECKED APPROVED RELEASED

Note QT: Qualification Test AT: Assurance Test ○: Applicable Test

HS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. DF10-31S-2DSA (59)
------------------------------	---------------------	-----------------------------

CODE NO. (OLD) CL	DRAWING NO. ELC1-071907-02	CODE NO. CL 545. - 0022-5-59	1/2
-------------------	----------------------------	------------------------------	-----



推奨基板寸法

注 1 キンク加工は、両端各2本を交互とする。

訂正回数 COUNT	訂正記事 DESCRIPTION OF REVISIONS	担当者 BY	検閲 CHKD	年月日 DATE	訂正回数 COUNT	訂正記事 DESCRIPTION OF REVISIONS	担当者 BY	検閲 CHKD	年月日 DATE

1	りん青銅	接触部金めつき (0.1μm)	2	ポリアミド樹脂	BLACK UL94V-0
部番	材質	処理, 備考	部番	材質	処理, 備考
一般公差 GENERAL DIMENSION TOLERANCE		旧製品コード CODE NO. (OLD)	製図 設計 検閲 承認 出図 DRAWN DESIGNED CHECKED APPROVED RELEASED		
寸法区分 OVER		公差 TO TOLERANCE	INC 74.2.8 花丸 INC 74.2.8 花丸 INC 74.2.8 小丸 INC 74.2.8 山丸 出図 5.4.27 SB		
6		±0.3	図番 DRAWING NO. ADC3-071907-02 製品名 PART NO. DF10-31S-2DSA(59) 製品コード CODE NO. CL545-0022-5-59		
18		±0.7			
50		±1			
125		±1.3			
250		±2			
角度 ANGULAR		±1°	単位 UNITS mm 単位 UNITS mm		