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

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-30 ℃ TO 85 ℃	STORAGE TEMPERATURE RANGE	-10 ℃ TO 60 ℃
	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.	ACCODING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		○	○
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100mA (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.	○	—
VOBRATION	FREQUENCY 10 TO 55 Hz, TOTAL AMPLITUDE 0.75 mm. — m/s² AT 3 h FOR 2 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: — mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—
SHOCK	490 m/s² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTION.		○	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 ℃, 90 ~95 %, 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 — TO — ℃, — TO — %, — CYCLES, TOTAL — h.	① CONTACT RESISTANCE: — mΩ MAX. ② INSULATION RESISTANCE: — MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: — MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	—	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 -15~35 85-15~35 ℃ 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 — ℃, — 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 ℃ ± 5 ℃ 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 ℃±5 ℃, A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % IMMERSED.		○	—

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

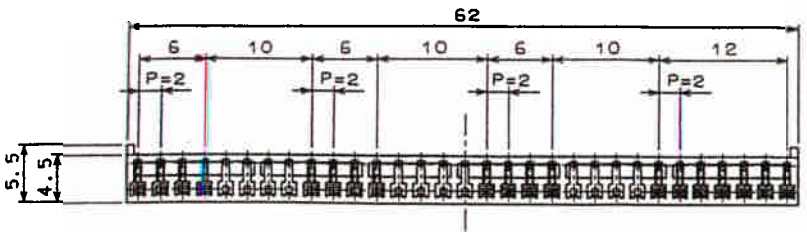
DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED

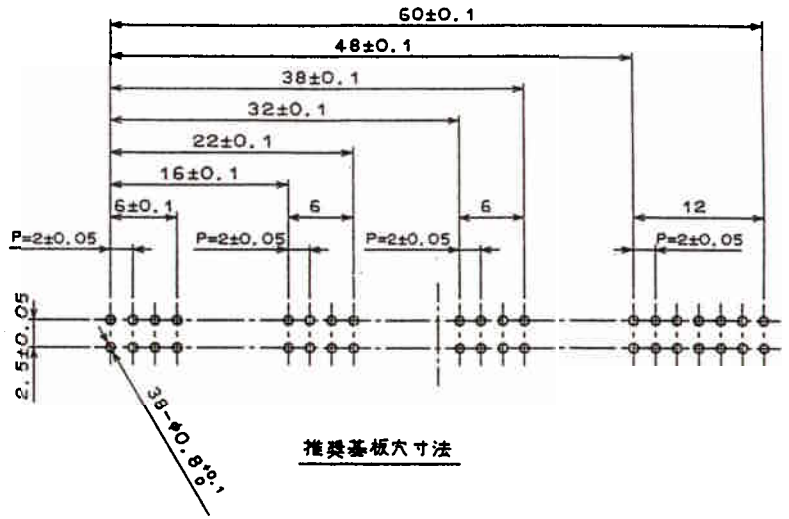
Note QT: Qualification Test AT: Assurance Test ○: Applicable Test

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

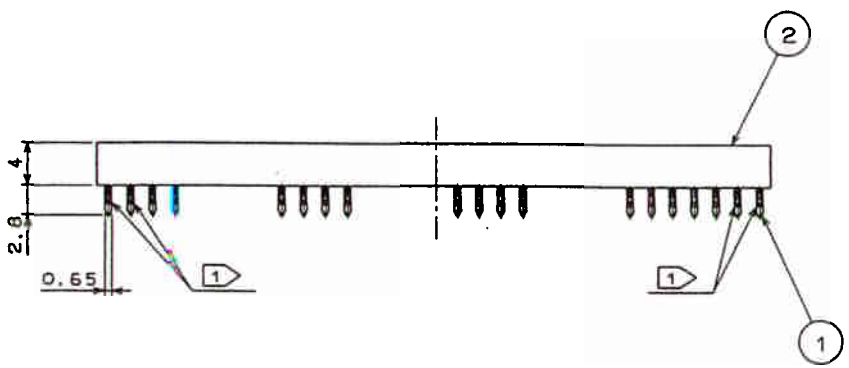
CODE NO. (OLD)	DRAWING NO.	CODE NO.	
CL	ELC1-071907-02	CL545-0022-5-59	1/2

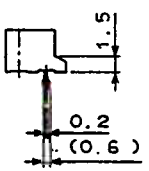
△の数 COUNT	訂正記事 DESCRIPTION OF REVISIONS	担当 BY	検図 CHKD	年月日 DATE	△の数 COUNT	訂正記事 DESCRIPTION OF REVISIONS	担当 BY	検図 CHKD	年月日 DATE
△					△				
△					△				
△					△				

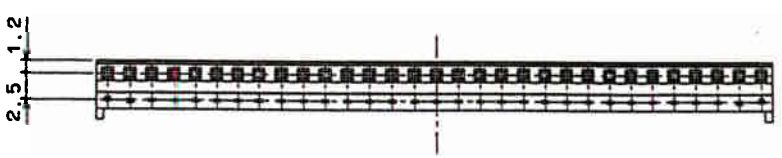




推奨基板穴寸法







注 1 キンク加工は、両端各2本を交互とする。

部番	材質	処理，備考	部番	材質	処理，備考
1	りん青銅	接触部金めっき（0.1μm）	2	ポリアミド樹脂	BLACK UL94V-0

一般公差 GENERAL DIMENSION TOLERANCE	
寸法区分 OVER TO	公差 TOLERANCE
6	±0.3
6 18	±0.5
18 50	±0.7
50 125	±1
125 250	±1.3
250 500	±2
角度 ANGULAR	±1°

旧製品コード CODE NO. (OLD)

製図 DRAWN	担当 DESIGNED	検図 CHECKED	承認 APPROVED	出図 RELEASED
INC 14.2.8 花見	INC 14.2.8 花見	INC 14.2.8 小関	INC 14.2.9 山本	出図 6.4.27 SB太

尺度 SCALE 2:1
単位 UNITS mm

図番 DRAWING NO. ADC3-071907-02

製品名 PART NO. DF10-31S-2DSA(59)

ヒロセ電機株式会社 HIROSE ELECTRIC CO., LTD.

製品コード CODE NO. CL545-0022-5-59

1/1

FORM No. 233