Excellent Integrated System Limited

Stocking Distributor

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Hirose Electric Co Ltd
DF10-31S-2DSA(62)

For any questions, you can email us directly:
sales@integrated-circuit.com

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-30°C TO +85°C(NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO + 60°C
	VOLTAGE	250V AC		
	CURRENT	2A		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	—
MARKING	CONFIRMED VISUALLY.		X	—
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100m A (DC OR 1000 Hz).	30mΩ MAX.	X	—
INSULATION RESISTANCE	500V DC	1000M Ω MAX	X	—
VOLTAGE PROOF	650V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	□0.5±0.002 BY STEEL GAUGE.	INSERTION FORCE 4.4 N MAX. EXTRACTION FARCE 0.3 N MIN.	X	—
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 30mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	–
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	–
SHOCK	490 m/s² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	–
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→15 TO 35→85→15 TO 35°C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ 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 CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	–
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	X	—
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JEIDA-39)	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	X	—
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260±5℃ FOR IMMERSION,DURATION,10S.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245±5℃ FOR IMMERSION DURATION,3S.	SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSED.	X	—

REMARKS
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.

UNLESS OTHERWISE SPECIFIED , REFER TO MIL-STD-1344.

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

APPROVED	KH.IKEDA	05.11.24
CHECKED	TS.MIYAZAKI	05.11.24
DESIGNED	YH.MICHIDA	05.11.24
DRAWN	HK.MURAKAMI	05.11.22

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

DRAWING NO. ELC4-071907-07

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. DF10-31S-2DSA(62)

CODE NO. CL545-0022-5-62 △0 1/1

FORM HD0011-2-1

2006/04/27 01:20:57 ctribble

DRAWING FOR REFERENCE:This is subject to change without notice

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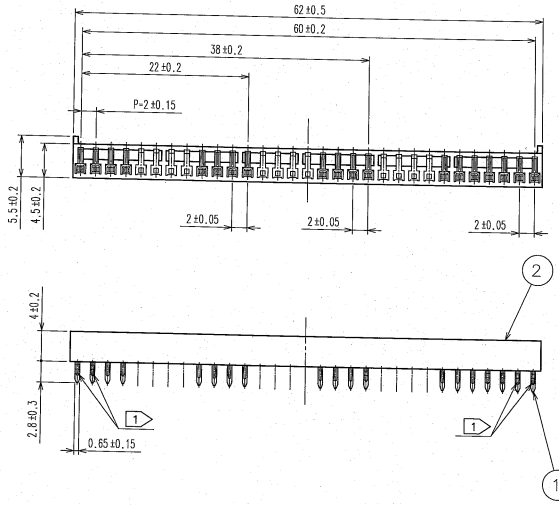
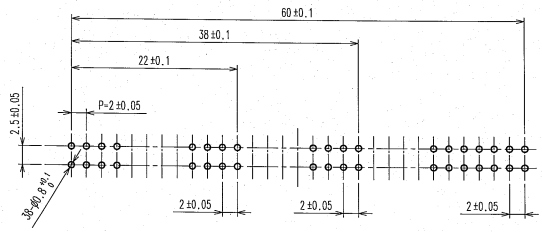
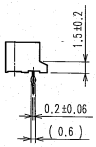
△				. .	△				. .
△				. .	△				. .



RECOMMENDED PC BOARD
HOLE PATTERN





NOTES 1: KINK SHOULD BE GIVEN ON 2 BOTH EDGE SIDE PINS ALTERNATELY.
2: CONTACT AREA:GOLD PLATED (0.1μm min)
LEAD AREA:TIN PLATED(REFLOW FINISHED) 1μm min
UNDER PLATING:NICKEL 0.5μm min

NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
1	PHOSPHOR BRONZE	2	2	POLYAMIDE	BLACK,UL94V-0

CODE NO.(OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	H.Murakami '05.11.24	J.Michida 05.11.24	T.Miyazaki 05.11.24	K.Ikeda '05.11.24	. .

SCALE 2 : 1	DRAWING NO. EDC3-071907-07	PART NO. DF10-31S-2DSA(62)
UNITS mm	HRS HIROSE ELECTRIC CO., LTD	CODE NO. CL545-0022-5-62 1/1

FORM NO.229

TO