

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾	
	VOLTAGE	200 V AC	40 % TO 80 %
	CURRENT	2 A	40 % TO 70 % ⁽²⁾

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	x	x
MARKING	CONFIRMED VISUALLY.		x	x

ELECTRIC CHARACTERISTICS				
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CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	15 mΩ MAX.	x	-
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.	x	-
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	x	-

MECHANICAL CHARACTERISTICS				
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VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2 h FOR 3 AXIAL DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms, 3 TIMES TO BOTH DIRECTIONS IN 3 AXIAL DIRECTIONS.		x	-

ENVIRONMENTAL CHARACTERISTICS				
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DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 20 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: 55 → +15 ~ +35 → +85 → +15 ~ +35 °C TIME 30 → 10 ~ 15 → 30 → 10 ~ 15 min. UNDER 5 CYCLES.		x	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 20 mΩ MAX. ② NO HEAVY CORROSION.	x	-
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA - 39)		x	-
RESISTANCE TO SOLDERING HEAT	1) SOLDER BATH: SOLDER TEMPERATURE: 260 ± 5 °C FOR IMMERSION DURATION, 10 ± 1 s. 2) SOLDERING IRONS : 350 °C FOR 3 s MAX.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	x	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245 ± 3 °C, FOR IMMERSION DURATION, 2 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSDED.	x	-

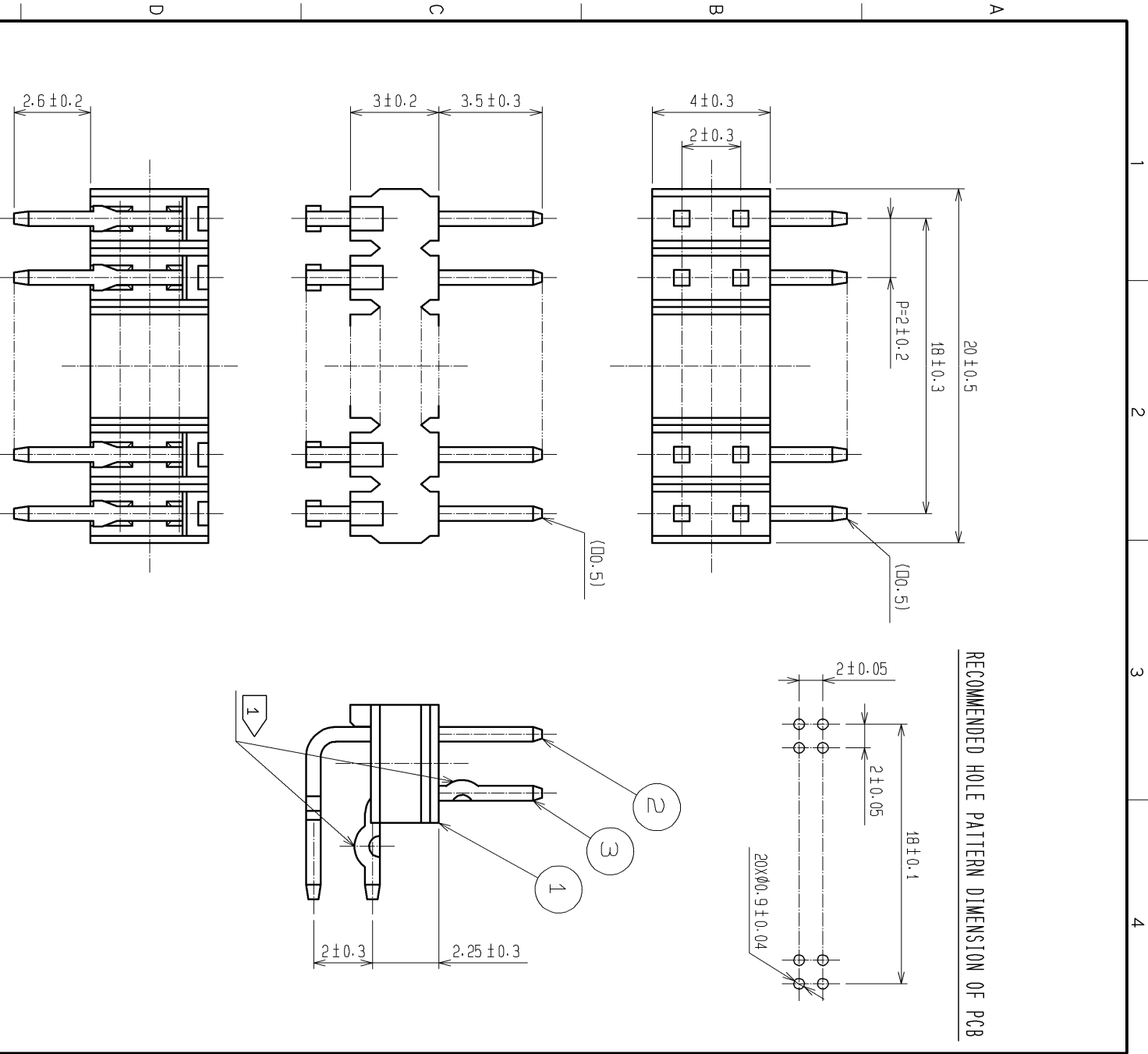
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△				

REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED.
⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.

Unless otherwise specified, refer to MIL-STD-1344.

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

HRS	SPECIFICATION SHEET	PART NO.	MA35-20P-2DS (71)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	QL588-0312-3-71
		DRAWING NO.	ELC4-083863-21
		APPROVED	HS. OKAWA
		CHECKED	HT. YAMAGUCHI
		DESIGNED	Y.J. ASAO
		DRAWN	Y.J. ASAO
			13.05.17
			13.05.17
			13.05.17



RECOMMENDED HOLE PATTERN DIMENSION OF PCB

NOTE 1 KINKED TERMINALS ARE SKIPPING STEP STYLE AND THE NUMBER OF KINKED TERMINAL SHALL BE 5.
 DESIGNED TO SNAP-FIT INTO 1.6 PCB WITH 0.9±0.04 THROUGH HOLES.
 2. THE DIMENSIONS IN PARENTHESES ARE FOR REFERENCE.

1	POLYAMIDE	BLACK UL94V-0	2	BRASS	TIN-PLATING: 3µm min UNDER PLATING: NICKEL 1µm min
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UNITS mm	MATERIAL	SCALE FREE	FINISH . REMARKS		NO.	MATERIAL	FINISH . REMARKS	
			COUNT	DESCRIPTION OF REVISIONS			DESIGNED	CHECKED

APPROVED : HS. OKAWA		13.05.17		DRAWING NO.		EDC4-083863-21	
CHECKED : HT. YAMAGUCHI		13.05.17		PART NO.		MA35-20P-2DS(71)	
DESIGNED : YJ. ASAO		13.05.17		CODE NO.		CL588-0312-3-71	
DRAWN : YJ. ASAO		13.05.17		FORM NO.		1	