

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△ 1	RE-E-09961	M.S.K.I		04.5.11	△				
△					△				

APPLICABLE STANDARD		EIAJ RC-5240							
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +85 °C				STORAGE TEMPERATURE RANGE	-40 °C TO +85 °C		
	VOLTAGE	AC 50V				OPERATING HUMIDITY RANGE	5 % TO 85 %		
	CURRENT	0.3 A				APPLICABLE CABLE	-		

SPECIFICATIONS																						
ITEM	TEST METHOD	REQUIREMENTS	QT	AT																		
CONSTRUCTION																						
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	☐	☐																		
MARKING	CONFIRMED VISUALLY.		☐	☐																		
ELECTRIC CHARACTERISTICS																						
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	50 mΩ MAX.	☐	☐																		
INSULATION RESISTANCE	250 V DC.	100 MΩ MIN.	☐	☐																		
VOLTAGE PROOF	250 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	☐	☐																		
MECHANICAL CHARACTERISTICS																						
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE 24.5 N MAX. WITHDRAWAL FORCE 2.5 N MIN.	☐	☐																		
MECHANICAL OPERATION	10000 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE : 100 mΩ MAX. ② INSERTION FORCE 24.5 N MAX. WITHDRAWAL FORCE 1.9 N MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	☐	☐																		
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS, TOTAL 6 h.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	☐	☐																		
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS, TOTAL 18 TIMES.		☐	☐																		
ENVIRONMENTAL CHARACTERISTICS																						
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40 → 25 → 85 → 25 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES.	① CONTACT RESISTANCE : 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	☐	☐																		
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90~95 %, 96 h (FOR 4 DAYS).	① CONTACT RESISTANCE : 100 mΩ MAX. ② INSULATION RESISTANCE : 10 MΩ MIN. ③ NO FLASHOVER OR BREAKDOWN. ④ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	☐	☐																		
DRY HEAT	EXPOSED AT +85±2 °C, 96±4 h.	① CONTACT RESISTANCE : 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	☐	☐																		
COLD	EXPOSED AT -40±3 °C, 96±4 h.	① CONTACT RESISTANCE : 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	☐	☐																		
CORROSION SALT MIST	EXPOSED IN 5±1 % SALT WATER, 35±3 °C FOR 48 ±4 h.	① CONTACT RESISTANCE : 100 mΩ MAX. ② NO HEAVY CORROSION.	☐	☐																		
<table border="1"> <tr> <td>REMARKS</td> <td>DRAWN</td> <td>DESIGNED</td> <td>CHECKED</td> <td>APPROVED</td> <td>RELEASED</td> </tr> <tr> <td></td> <td>M.SHIMOYAMA</td> <td>M.SHIMOYAMA</td> <td>M.NAKAMURA</td> <td>A.SUZUKI</td> <td></td> </tr> <tr> <td></td> <td>04.2.27</td> <td>04.2.27</td> <td>04.3.1</td> <td>04.3.2</td> <td></td> </tr> </table>					REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		M.SHIMOYAMA	M.SHIMOYAMA	M.NAKAMURA	A.SUZUKI			04.2.27	04.2.27	04.3.1	04.3.2	
REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED																	
	M.SHIMOYAMA	M.SHIMOYAMA	M.NAKAMURA	A.SUZUKI																		
	04.2.27	04.2.27	04.3.1	04.3.2																		
Unless otherwise specified, refer to JIS C 5402. Note QT:Qualification Test AT:Assurance Test O:Applicable Test																						
HS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO. MQ212-10PRT																		
CODE NO.(OLD) CL		DRAWING NO. ELC4-124433		CODE NO. CL206-2425-5																		
				1/2																		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
SOLDERBILITY	SOLERRING POINT OF CONTACTS IMMERSION IN SOLDER BATH OF $235\pm 5^{\circ}\text{C}$, 2 ± 0.5 sec. $\triangle 1$	SOLDERING POINT OF CONTACTS IMMERSION IN SOLDER, 90% MIN.	☐	—
RESISTANCE TO SOLDERING HEAT	MOLTEN-SDDER TEMPERATURE: $260\pm 5^{\circ}\text{C}$. IMMERSION FURABILITY PER LOCATION: 2 ± 1 sec.	NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	☐	—

REMARKS

DRAWN

DESIGNED

CHECKED

APPROVED

RELEASED

M.SHIMOYAMA

M.SHIMOYAMA

M.NAKAMURA

A.SUZUKI

04.2.27

04.2.27

04.3.1

04.3.2

Unless otherwise specified, refer to JIS C 5402.

Note QT:Qualification Test AT:Assurance Test ☐:Applicable Test**HRS**

HIROSE ELECTRIC CO., LTD.

SPECIFICATION SHEET

PART NO.

MQ212-10PRT

CODE NO.(OLD)

CL

DRAWING NO.

ELC4-124433

CODE NO.

CL206-2425-5

2

2

2008/05/02 02:27:35 CAROL TRIBBLE

DRAWING FOR REFERENCE: This is subject to change without notice

1 2 3 4 5 6 7 8

A

B

C

D

E

F

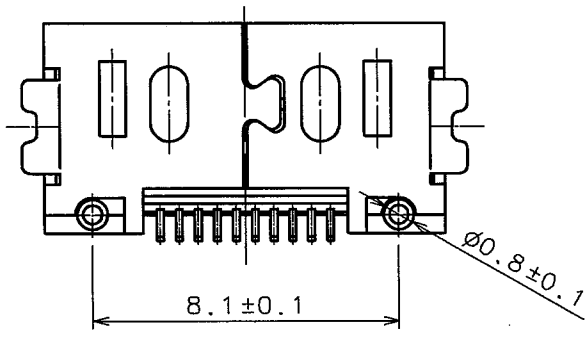
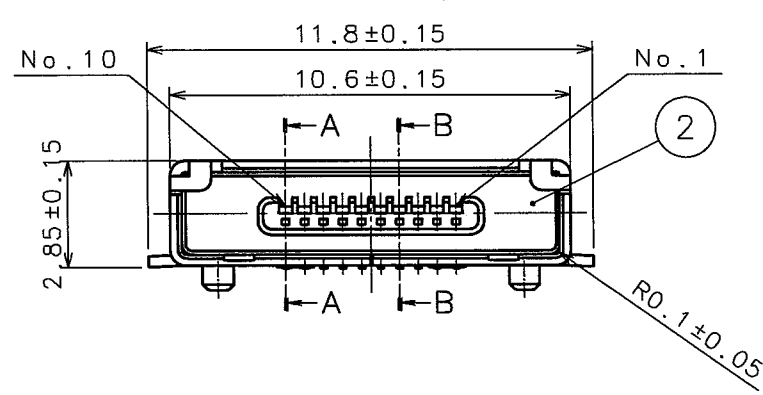
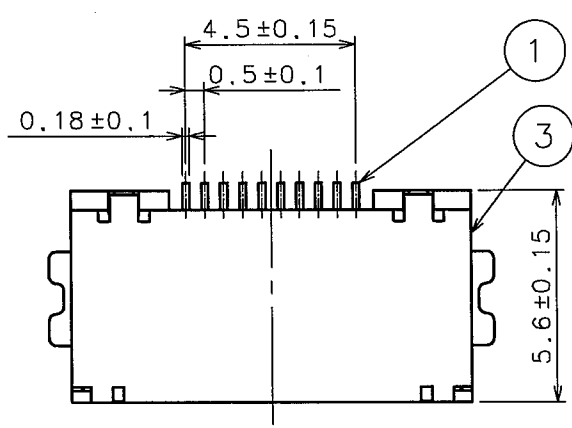
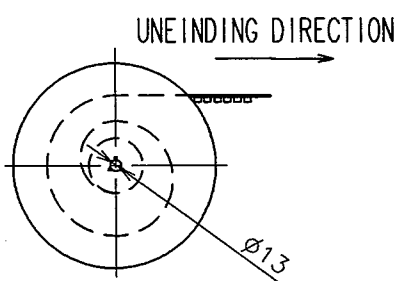
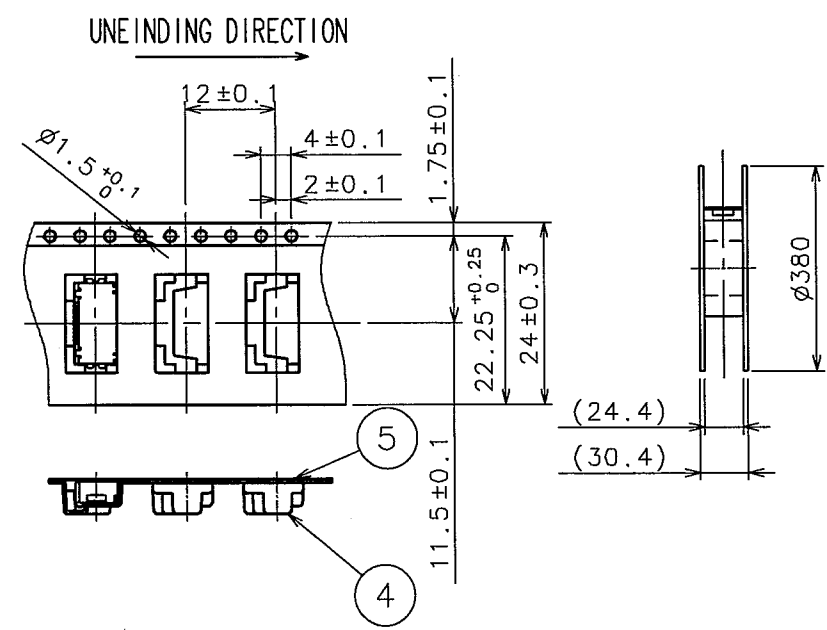
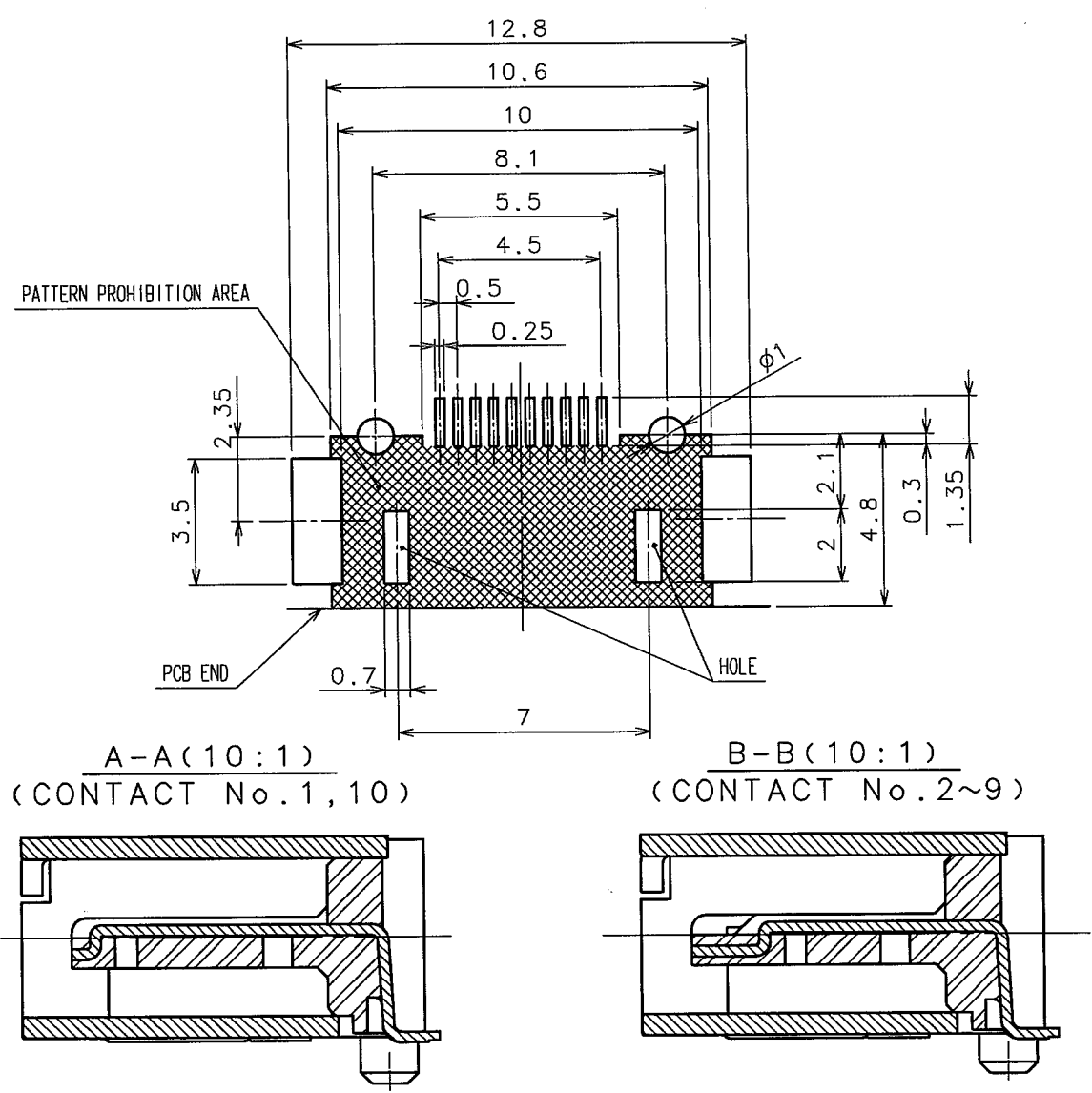


FIGURE FOR PACKING



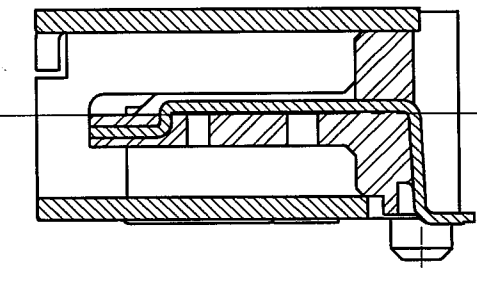
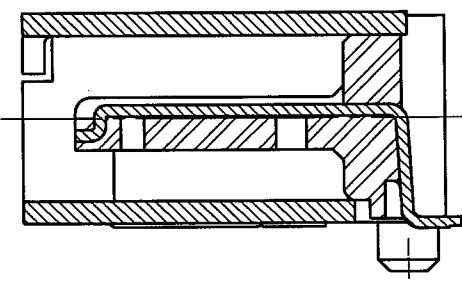
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE

RECOMMENDED PC BOARD PATTERN



A-A (10:1)
(CONTACT No. 1, 10)

B-B (10:1)
(CONTACT No. 2~9)



NOTE 1 PER REL: 1500 PIECES.
2 CO-PLANARITY TO BE 0.1mm MAX.

2	LCP	UL94V-0 (BLACK)	5	PS	
1	PHOSPHOR BRONZE	UNDER PLATING: NICKEL 2μm MIN CONTACT AREA: GOLD 0.2μm MIN LEAD AREA: GOLD FLASH	4	PS	
NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
CODE NO. (OLD)			DRAWN	DESIGNED	CHECKED
			M. Shimogama	M. Shimogama	M. Nakamura
			04.2.27	04.2.27	04.3.1
					04.3.2
SCALE	DRAWING NO.	PART NO.			
5 : 1	EDC3-124433	MQ212-10PRT			
UNITS	HIROSE ELECTRIC CO., LTD	CODE NO.			
mm		CL206-2425-5			