

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Hirose Electric Co Ltd](#)
[MQ212-10P](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

2008/05/02 02:25:39 CAROL TRIBBLE

DRAWING FOR REFERENCE: This is subject to change without notice

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

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.		② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○ —

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.	○ —

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to JIS C 5402.	M. Shingaura	M. Shingaura	H. Kobayashi		
	04.2.27	04.2.27	04.3.1		

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

HIS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO.
CODE NO.(OLD)		DRAWING NO.	CODE NO.	1
CL	ELC4-124599	CL206-2446-5		2

2008/05/02 02:25:39 CAROL TRIBBLE

DRAWING FOR REFERENCE: This is subject to change without notice

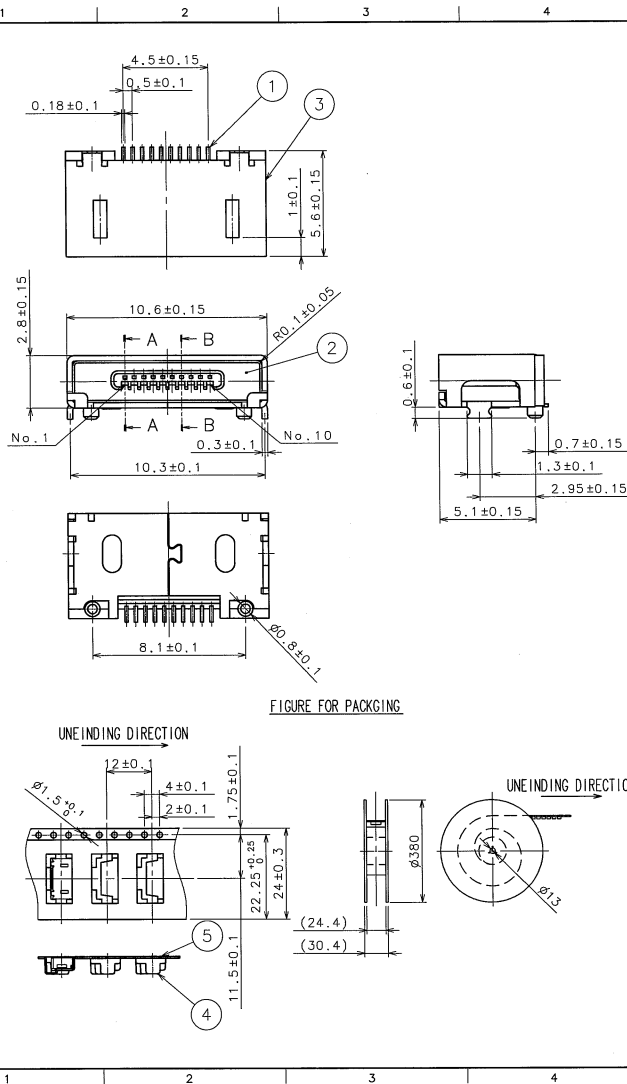
TO
Q

SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS	QT	AT			
SOLDERBILITY	SOLERRING POINT OF CONTACTS IMMERSION IN SOLDER BATH OF 350±5℃,2±0.5 sec.	SOLDERING POINT OF CONTACTS IMMERSION IN SOLDER,90% MIN.	☐	—			
RESISTANCE TO SOLDERING HEAT	MOLTEN-SDDER TEMPERATURE:260±5℃. IMMERSION FURABILITY PER LOCATION:2± 1 sec.	NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	☐	—			
REMARKS			DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to JIS C 5402.			<i>M. Shimogano</i>	<i>M. Shimogano</i>	<i>H. Ikemura</i>	<i>[Signature]</i>	
			04.2.27	04.2.27	04.3.1	04.3.2	
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test							
 HIROSE ELECTRIC CO., LTD.			SPECIFICATION SHEET		PART NO.		
CODE NO.(OLD) CL			DRAWING NO. ELC4-124599		MQ212-10P CL206-2446-5		
					2 / 2		

2008/05/02 02:25:39 CAROL TRIBBLE

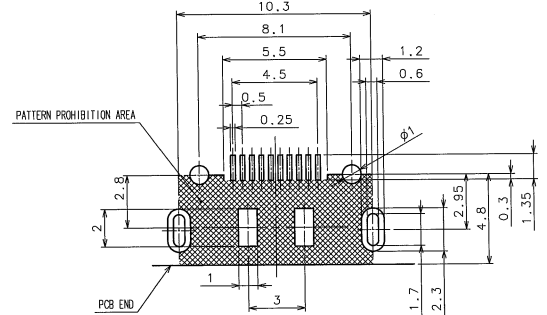
DRAWING FOR REFERENCE: This is subject to change without notice

TO
Q

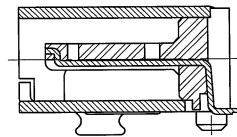


COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE

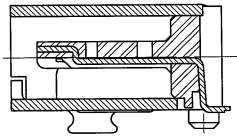
RECOMMENDED PC BOARD PATTERN



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	
3	PHOSPHOR BRONZE	UNDER PLATING: NICKEL 1μm MIN MOUNTING AREA: TIN 1μm MIN			
NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
CODE NO. (OLD)			DRAWN	DESIGNED	CHECKED
			04.2.27	04.2.27	04.3.1
			04.3.2		
SCALE	DRAWING NO.	EDC3-124599	PART NO.	MQ212-10P	
5 : 1			CODE NO.	CL206-2446-5	
UNITS					
mm					