



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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2008/05/02 02:29:36 CAROL TRIBBLE

DRAWING FOR REFERENCE: This is subject to change without notice

TO
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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.			X	X
MARKING		CONFIRMED VISUALLY.						X	X
ELECTRIC CHARACTERISTICS									
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).			50 mΩ MAX.			X	-
INSULATION RESISTANCE		250 V DC.			100 MΩ MIN.			X	-
VOLTAGE PROOF		250 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			X	X
MECHANICAL CHARACTERISTICS									
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE 24.5 N MAX. WITHDRAWAL FORCE 2.5 N MIN.			X	-
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.			X	-
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.			X	-
SHOCK		490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS, TOTAL 18 TIMES.						X	-
ENVIRONMENTAL CHARACTERISTICS									
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -40 → 25 → 85 → 25 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 10 CYCLES.			① CONTACT RESISTANCE : 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±3 °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.			X	-
DRY HEAT		EXPOSED AT +85±2 °C, 96±4 h.			① CONTACT RESISTANCE : 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-
COLD		EXPOSED AT -40±3 °C, 96±4 h.			① CONTACT RESISTANCE : 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-
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.			X	-
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to JIS C 5402.					M. Shingama 05.9.1	M. Shingama 05.9.1	K. Schikawa 05.9.2	 05.9.2	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test									
HRS HIROSE ELECTRIC CO., LTD.					SPECIFICATION SHEET			PART NO. MQ212B-10P	
CODE NO.(OLD) CL		DRAWING NO. ELC4-125478			CODE NO. CL206-2506-5			1 2	

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SPECIFICATIONS				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
SOLDERABILITY	SOLERRING POINT OF CONTACTS IMMERSION IN SOLDER BATH OF 235±10°C, 2±0.5 sec.	SOLDERING POINT OF CONTACTS IMMERSION IN SOLDER, 90% MIN.	×	—
RESISTANCE TO SOLDERING HEAT	MOLTEN-SDDER TEMPERATURE: 260±5°C. IMMERSION FURABILITY PER LOCATION: 2±1 sec.	NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	×	—

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	<i>M. Shimegama</i> 05.9.1	<i>M. Shimegama</i> 05.9.1	<i>J. Chikawa</i> 05.9.2	<i>[Signature]</i> 05.9.2	

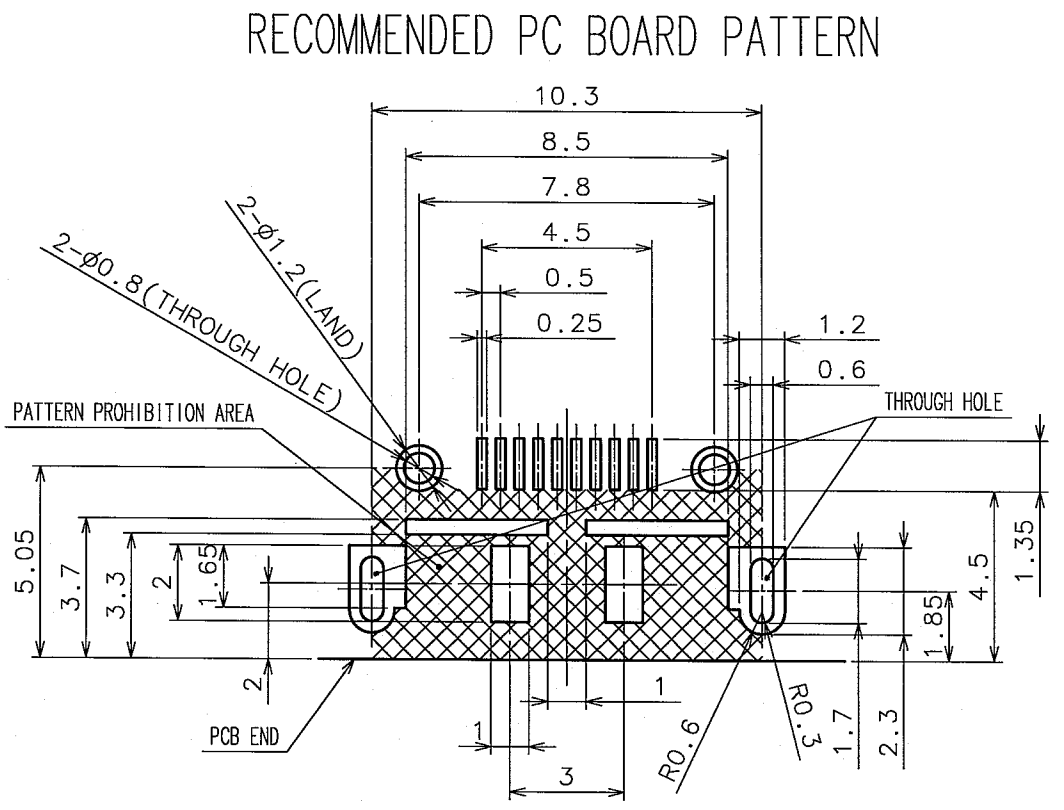
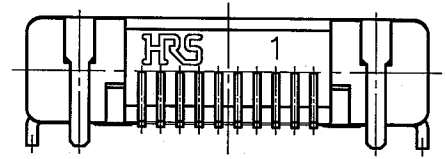
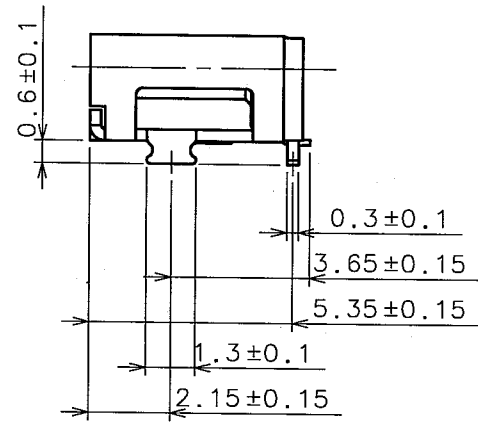
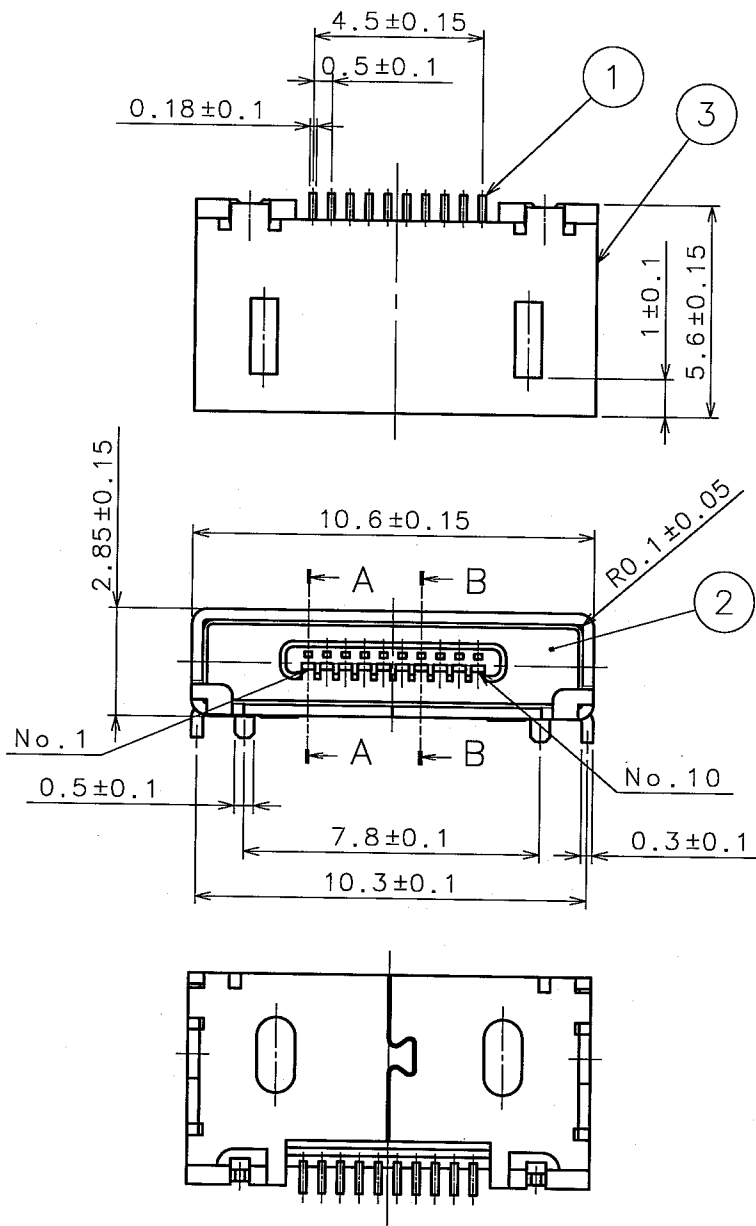
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test

HRS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. MQ212B-10P
CODE NO.(OLD) CL	DRAWING NO. ELC4-125478	CODE NO. CL206-2506-5

2
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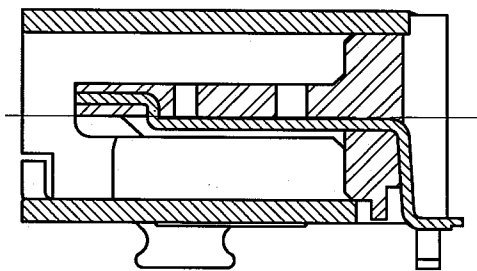
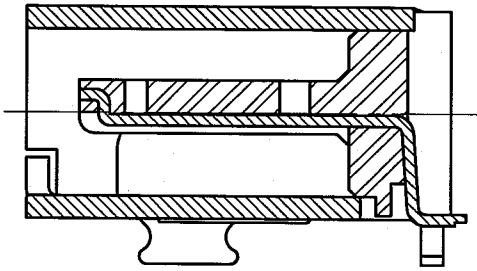
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COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE



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

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

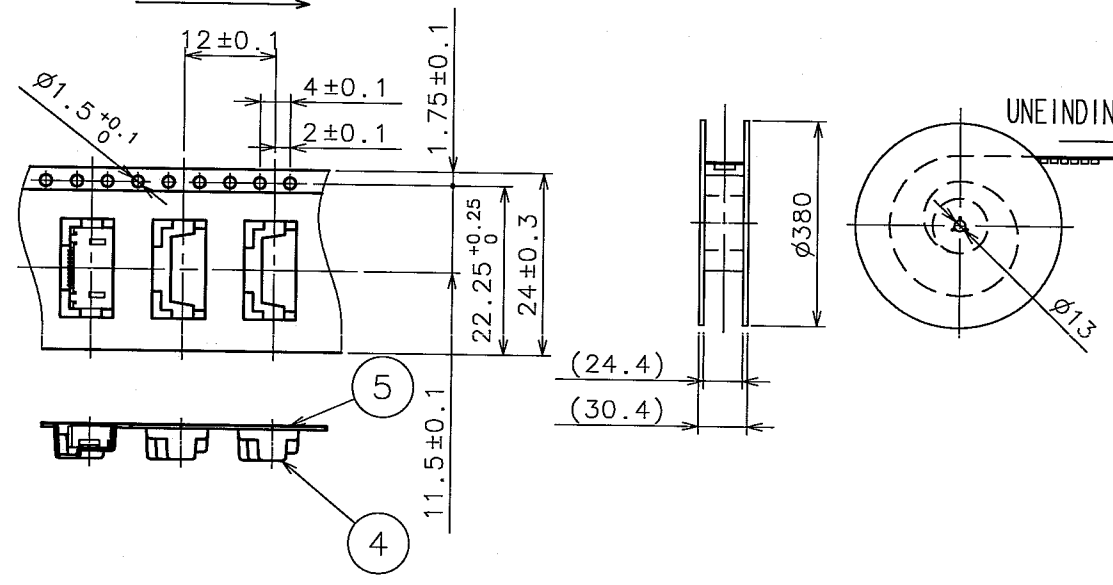


NOTE 1 PER REL: 1500 PIECES.
2 CO-PLANARITY TO BE 0.1mm MAX.

UNEINDING DIRECTION

FIGURE FOR PACKING

UNEINDING DIRECTION



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
3	PHOSPHOR BRONZE	UNDER PLATING: NICKEL 1μm MIN MOUNTING AREA: TIN 1μm MIN			

CODE NO. (OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	<i>M. Shimoyama</i>	<i>M. Shimoyama</i>	<i>K. Shihara</i>	<i>[Signature]</i>	
	05.9.1	05.9.1	05.9.2	05.9.2	
SCALE	DRAWING NO.		PART NO.		
5 : 1	EDC3-125478		MQ212B-10P		
UNITS	HRS HIROSE ELECTRIC CO., LTD		CODE NO.		
mm			CL206-2506-5		