

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

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.		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.	
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.		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.	
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.	
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.	

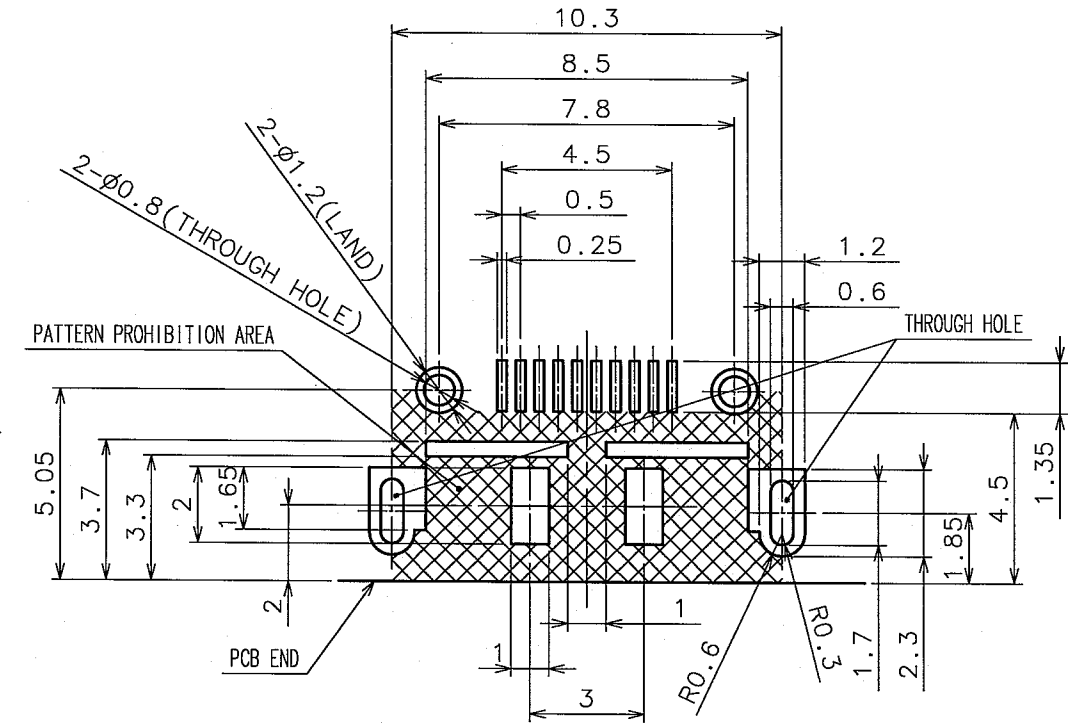
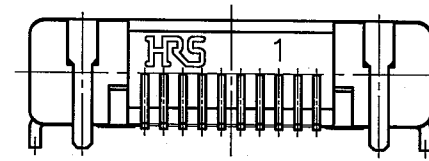
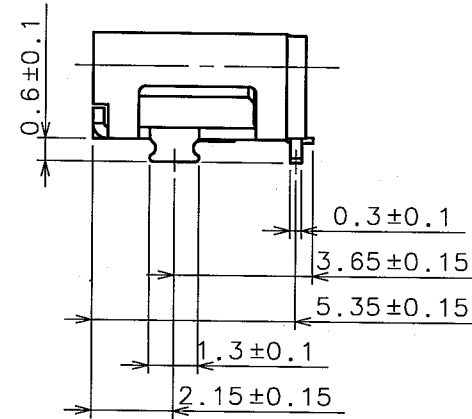
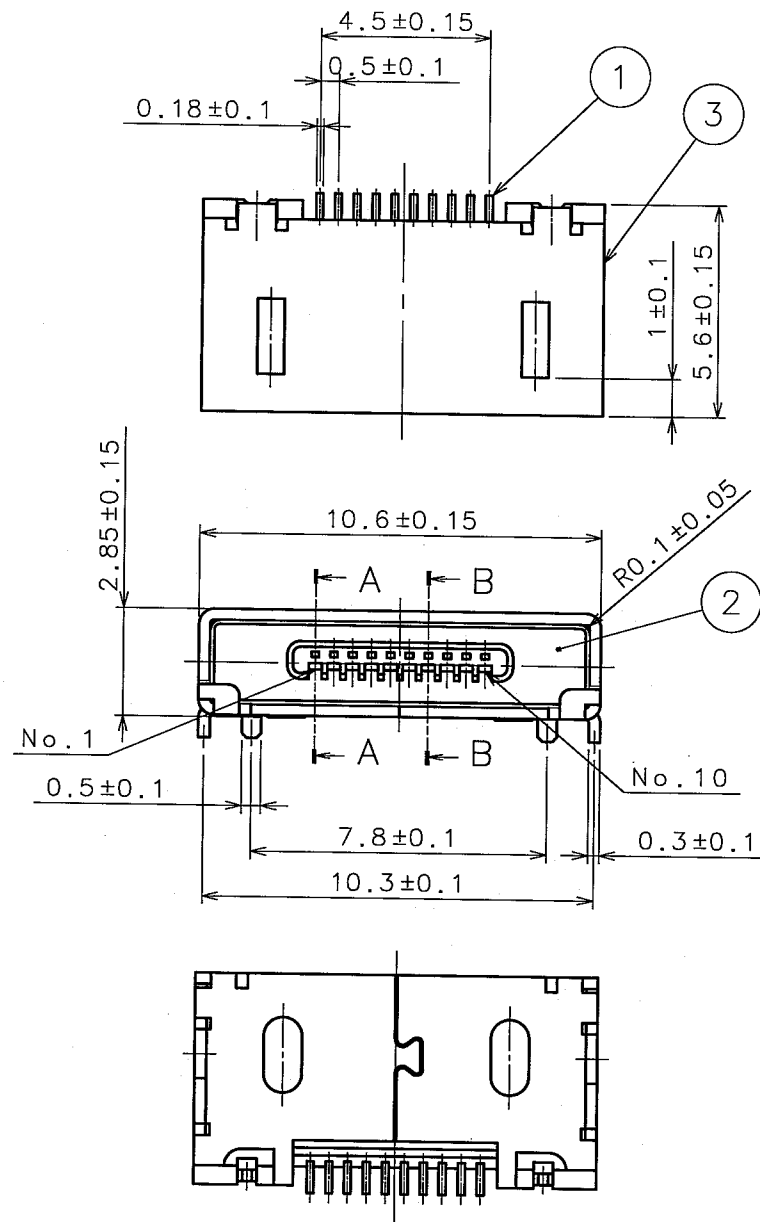
REMARKS		DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to JIS C 5402.		M. Shingama 05.9.1	M. Shingama 05.9.1	K. Schikawa 05.9.2	Shigehiko 05.9.2	

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	

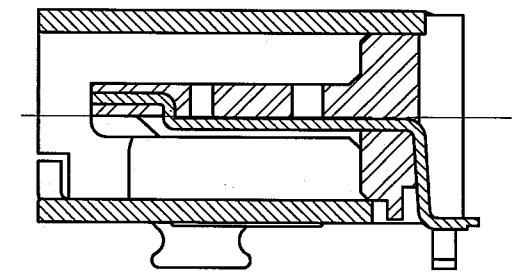
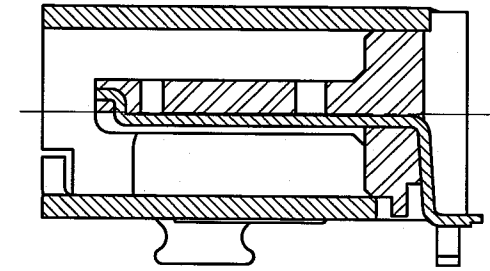
TO
Q

SPECIFICATIONS						
ITEM	TEST METHOD	REQUIREMENTS	QT	AT		
SOLDERBILITY	SOLERRING POINT OF CONTACTS IMMERSION IN SOLDER BATH OF $235 \pm 10^{\circ}\text{C}$, 2 ± 0.5 sec.	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
Unless otherwise specified, refer to JIS C 5402.		<i>M. Shimegama</i> 05.9.1	<i>M. Shimegama</i> 05.9.1	<i>J. Chikawa</i> 05.9.2	<i>Shigeaki</i> 05.9.2	
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test						
HS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO. MQ212B-10P		
CODE NO.(OLD) CL	DRAWING NO. ELC4-125478	CODE NO. CL206-2506-5			2/2	

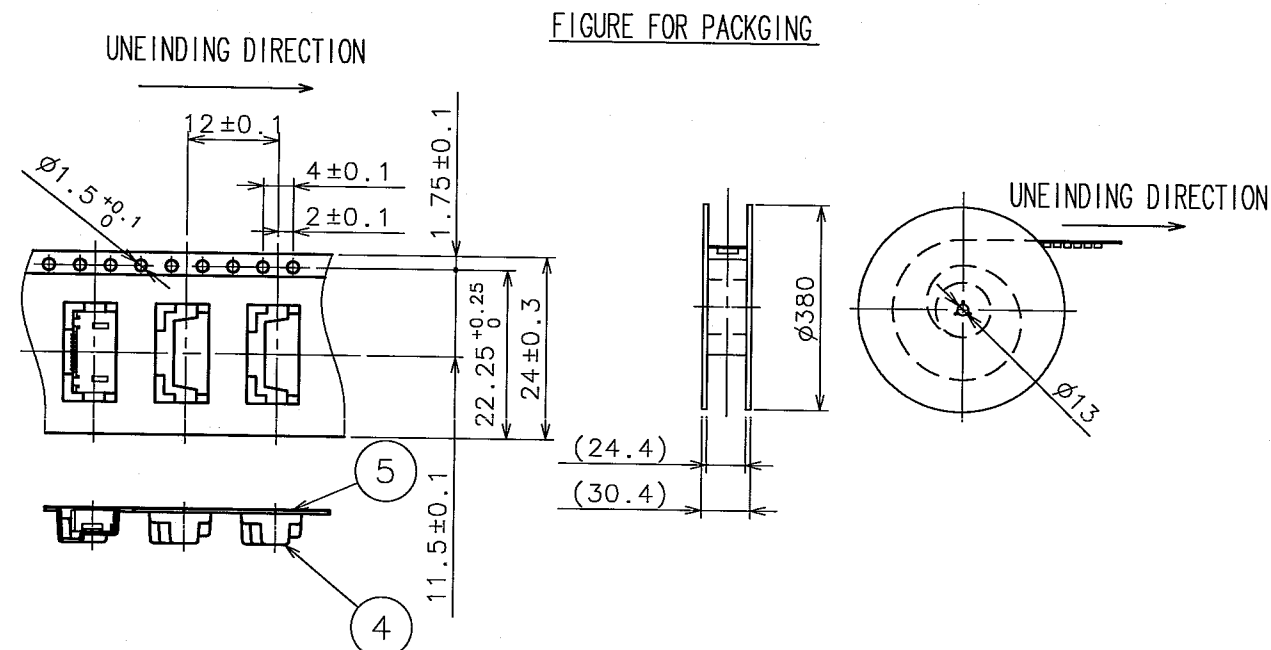


A-A (10:1)
(CONTACT No. 1, 10)

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



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



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2	LCP	UL94V-0 (BLACK)	5	PS	
1	PHOSPHOR BRONZE	UNDER PLATING:NICKEL 2 μ m MIN CONTACT AREA:GOLD 0.2 μ m MIN LEAD AREA: GOLD FLASH	4	PS	
			3	PHOSPHOR BRONZE	UNDER PLATING:NICKEL 1 μ m MIN MOUNTING AREA:TIN 1 μ m MIN
NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
CODE NO.(OLD)			DRAWN	DESIGNED	CHECKED
			M. Shimoyama 05.9.1	M. Shimoyama 05.9.1	K. Chikawa 05.9.2
			APPROVED		RELEASED
			05.9.2		.
DRAWING NO.			PART NO.		
EDC3-125478			MQ212B-10P		
SCALE			CODE NO.		
5 : 1			CL206-2506-5		
UNITS			1		
mm			1		
HRS			HIROSE ELECTRIC CO., LTD		