

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				
<b>APPLICABLE STANDARD</b>									
RATING	OPERATING TEMPERATURE RANGE	-30°C TO 75°C			STORAGE TEMPERATURE RANGE	- 40 °C TO 85 °C			
	VOLTAGE	5V AC			STORAGE HUMIDITY RANGE	20 % TO 90 %			
	CURRENT	1A							
<b>SPECIFICATIONS</b>									
ITEM		TEST METHOD			REQUIREMENTS			QT	AT
<b>CONSTRUCTION</b>									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			○	○
MARKING		CONFIRMED VISUALLY.						○	○
<b>ELECTRIC CHARACTERISTICS</b>									
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).			50 mΩ MAX.			○	○
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.		20 mV MAX, 100 mA(DC OR 1000 Hz).						○	—
INSULATION RESISTANCE		100 V DC			100 MΩ MIN.			○	○
VOLTAGE PROOF		100 V AC FOR 1min.			NO FLASHOVER OR BREAKDOWN			○	○
CAPASITANCE		MEASURE ADJACENT TWO CONTACTS AT 1000±10Hz AC VOLTAGE.			2 pF MAX			○	—
<b>MECHANICAL CHARACTERISTICS</b>									
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE 35 N MAX. EXTRACTION FORCE 7 N MIN.			○	—
MECHANICAL OPERATION		5000 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 70 mΩ MAX. ② EXTRACTION FORCE 3 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.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	—
RANDOM VIBRATION		FREQUENCY 50 TO 2000 Hz, AT 15 min, FOR 3 DIRECTIONS.						○	—
SHOCK		490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3TIMES FOR 6 DIRECTION. HALF SINE WAVE.						○	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>									
THERMAL SHOCK		TEMPERATURE -55→ 20~35→ 85→ 20~35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 10 CYCLES,			① CONTACT RESISTANCE: 70 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	—
HUMIDITY LIFE		TEMPERATURE -10~65 °C, HUMIDITY 90 TO 98 %, UNDER 7 CYCLES (168 h)			① INSULATION RESISTANCE: 10 MΩ MIN.(AT DRY) ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	—
CORROSION SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. (JIS C 5402)			① CONTACT RESISTANCE: 70 mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	—
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
This product standard table is a standard at the combination with our company acceptable connector , and it depends on individual meeting for the combination with the other companies product.					J. Minna 05.05.07	J. Minna 05.05.07	M. Nakamura 05.05.07	 05.05.07	
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test									
<b>HS HIROSE ELECTRIC CO., LTD.</b>				<b>SPECIFICATION SHEET</b>		PART NO. UX20-MB-5P			
CODE NO.(OLD)		DRAWING NO.		CODE NO.		1/1			
		ELC4-124614		CL240-0009-0					

A

B

C

D

E

F

1

2

3

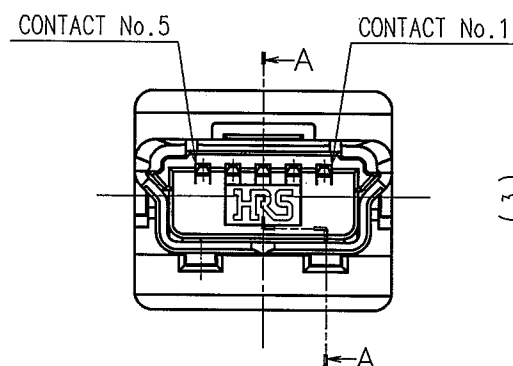
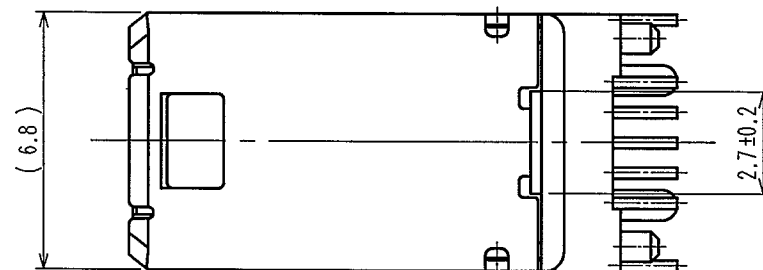
4

5

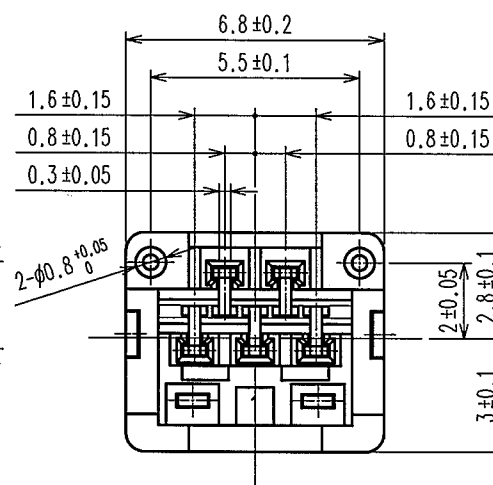
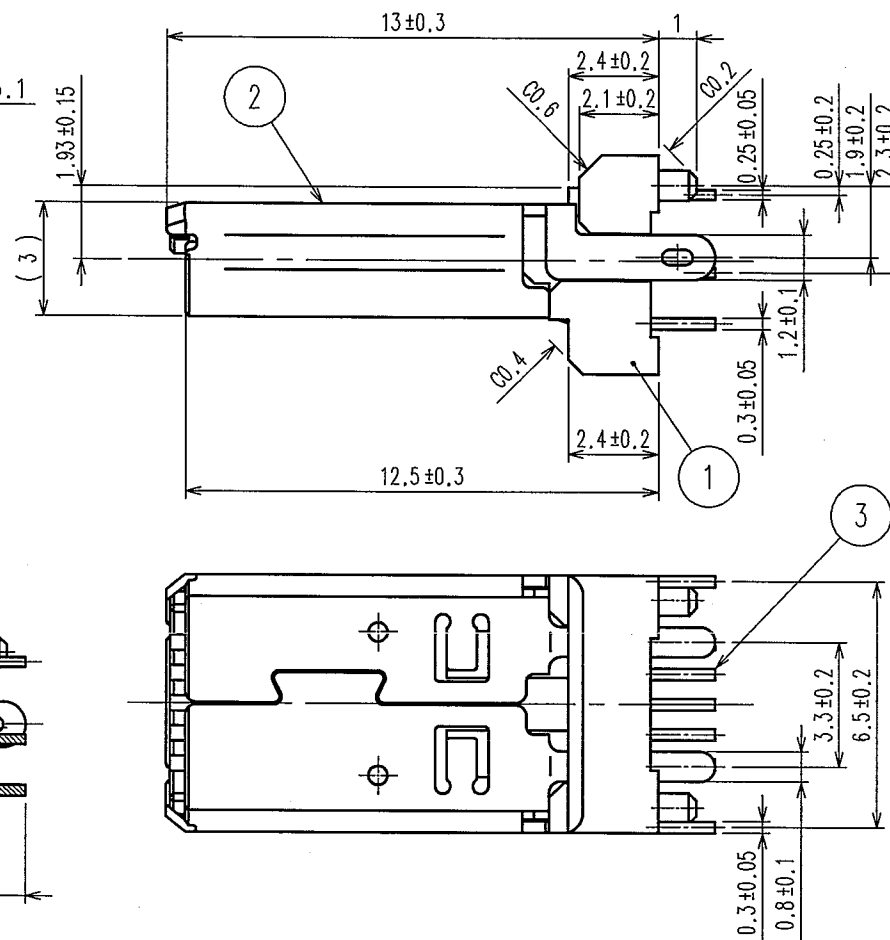
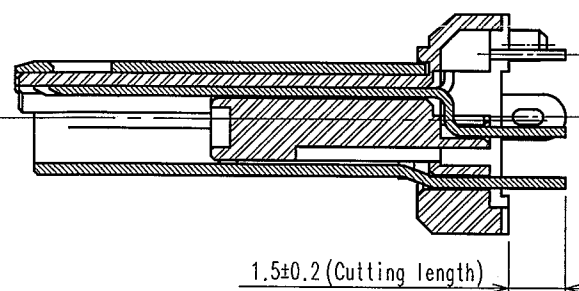
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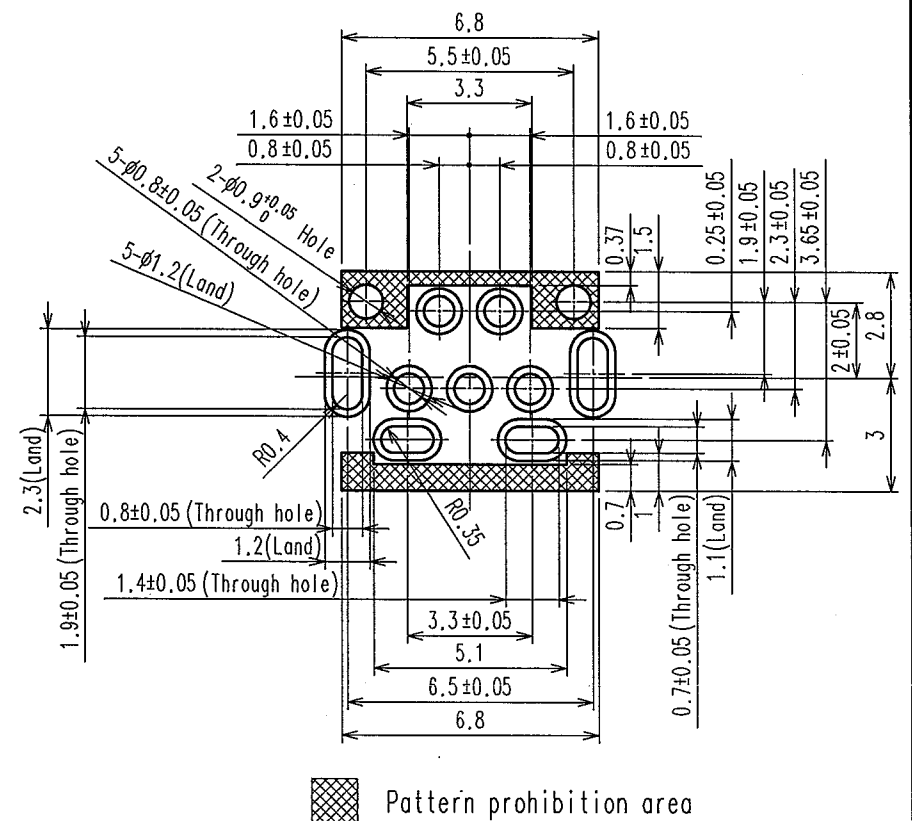
8



A-A

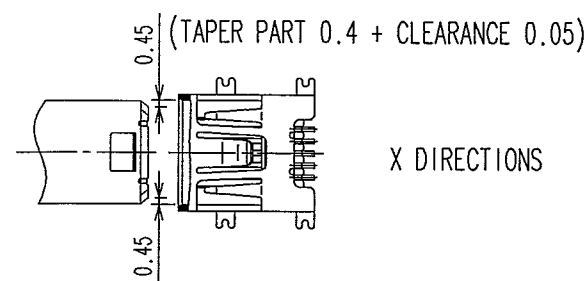


# RECOMMENDED PC BOARD PATTERN (MOUNTING SIDE)

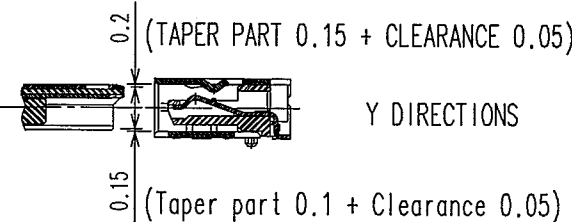


Pattern prohibition area

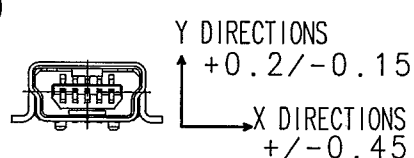
## DIMENSIONS OF GAIDING (2:1)



X DIRECTIONS



Y DIRECTIONS



Y DIRECTIONS  
+0.2/-0.15  
X DIRECTIONS  
+/-0.45

NOTE 1. INTERFACE DIMENTIONS CONFORM TO USB2.0 STANDARDS.

2	STEEL	TIN PLATING			
1	LCP	BLACK UL94V-0	3	COPPER ALLOY	GOLD PLATING
NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
CODE NO. (OLD)			DRAWN	DESIGNED	CHECKED
			J. Minna	J. Minna	M. Nobumura
			05-05-07	05-05-07	05-05-07
			APPROVED	RELEASED	
DRAWING NO.			PART NO.		
EDC3-124614			UX20-MB-5P		
SCALE			CODE NO.		
5 : 1			CL240-0009-0		
UNITS					
mm					

HIROSE ELECTRIC CO., LTD

CL240-0009-0