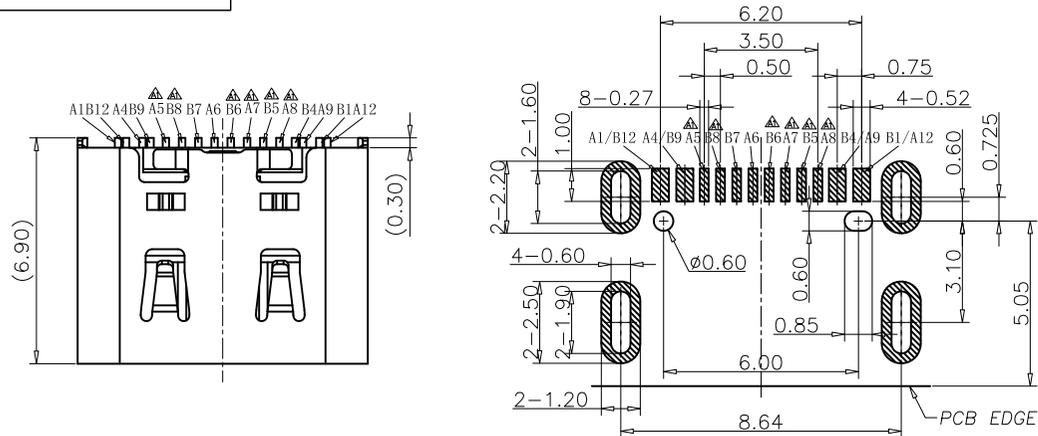


# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2019/10/20	Hanson
A1			Modify PCB LAYOUT	2020/12/03	Ginny Liao
A1.1			Change	2024/03/29	Ken Lin



**A1** RECOMMEND P.C.B LAYOUT (COMPONENT SIDE)  
TOLERANCE FOR PCB LAYOUT IS  $\pm 0.05$

### NOTES:

#### 1. Mechanical:

Insertion force: 0.5~2.0kgf  
Removal force: 0.8~2.0kgf  
Durability: 10000 times

#### 2. Electrical:

**A1.1** Current rating: 5A  
Voltage rating: 20V  
Insulation resistance: 100MΩ Min  
Dielectric withstand voltage: AC 100V for 1 Minute.

#### 3. Environmental:

Operating temperature:  $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$

#### 4. IR REFLOW:

The peak temperature on the board shall be maintained for 10 seconds at  $260^{\circ}\text{C}$

MATRIX PART NO:

MUSB12-01 - 434

MATRIX TYPE-C

Series number

Plating  
01: Gold Flash  
03: 3u"  
15: 15u"  
30: 30u"

### TABLE:

NO	PART	Q'TY	Material
1	SHELL	1	STAINLESS STEEL, Ni PLATED 30u"Min
2	CONTACT	16	COPPER STEEL, Ni 50u"Min; Au 1u"
3	MID PLATE	1	STAINLESS STEEL, NO PLATING
4	MD HOUSING	1	HIGH TEMPERATURE RESISTANT PLASTIC BLACK UL94 V-0

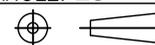


Matrix Electronics Co., Ltd

### USB TYPE C PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A4	VBUS	B9	VBUS
A5	CC1	B8	SUB2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND

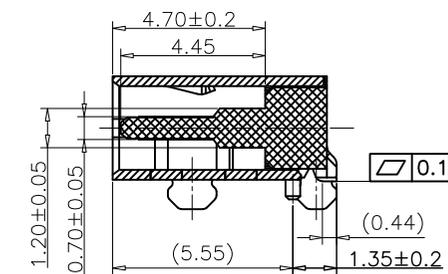
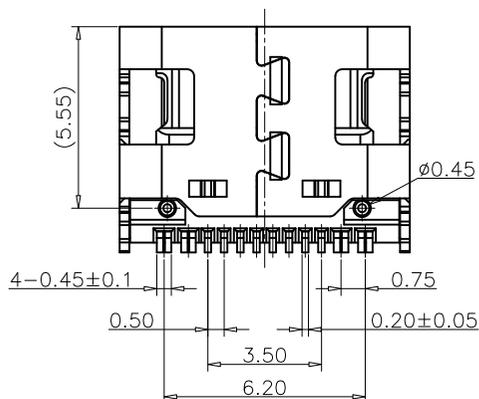
TOLERANCE:  
X.X  $\pm 0.30$   
X.XX  $\pm 0.20$   
X.XXX  $\pm 0.10$   
ANGLE:  $\pm 3^{\circ}$



UNIT: mm [inch]

SCALE: 1:1 SIZE: A4

DESIGN BY :	DATE :	PART NAME:	
Ken Lin	2024/03/29	TYPE C 16P母座板上 L=6.9 CL=1.58(外壳有弹片)	
CHECKED BY:	DATE :	PART NO.	MUSB12-01-434
Hanson Huang	2024/03/29		
APPROVED BY1:	DATE :	MOLD NO.	NA
Richard Hsieh	2024/03/29		
APPROVED BY2:	DATE :	DRAW NO.	
Richard Hsieh	2024/03/29		
		SHEET NO.	1 OF 1



SECTION A-A  
SCALE 1:1