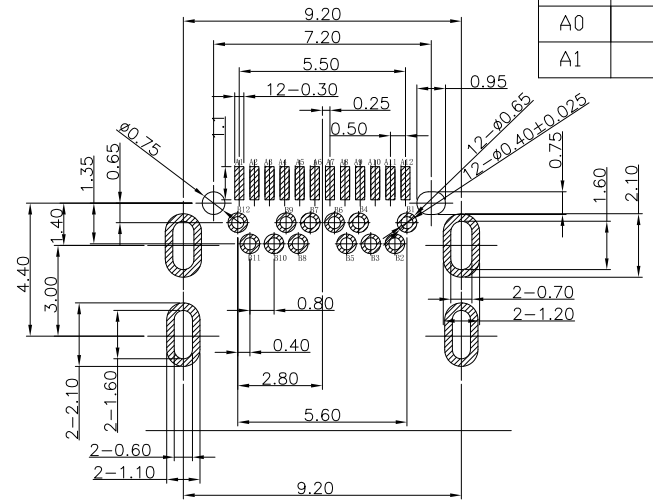
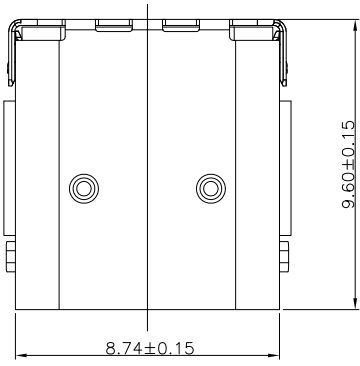
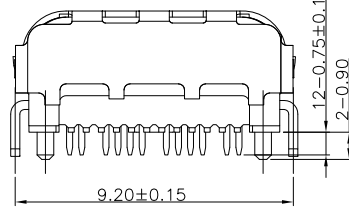
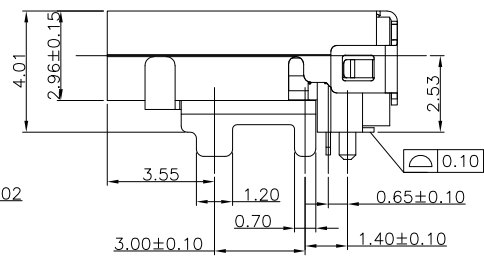
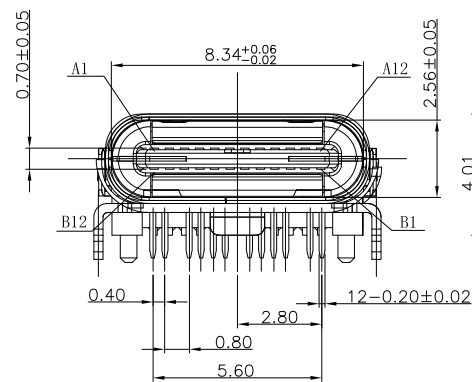


GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2017/07/28	Phebe Su
A1			Modify notes	2018/08/08	Phebe Su



RECOMMENDED P.C.B LAYOUT
PCB THICKNESS 1.0±0.05mm



- NOTES:
- MATERIAL:
MOLDING: LCP BLACK UL94 V-0
CONTACT: COPPER ALLOY.
GOLD FLASH PLATED Min ON CONTACT AREA, 100u" Min TIN (LEAD FREE) ON SOLDER AREA.
SHELL: SUS304-H,T=0.30±0.03mm
50u" NICKEL PLATING OVER ALL.
SHILD:SUS304-H,T=0.12±0.03mm
 - MECHANICAL:
INSERTION: 5~20N.
EXTRACTION: 8~20N AFTER TEST.
DURABILITY: 10000 CYCLES
 - ELECTRICAL:
CURRENT: 3A MIN
VOLTAGE: 5VAC MAX
WITHSTANDING VOLTAGE: 100V AC R.M.S.
CONTACT RESISTANCE: 40mΩ MAX.
INSULATION RESISTANCE: 100MΩ MIN.
 - ENVIRONMENTAL
TEMPERATURE RANGE -40°C ~ +85°C

MATRIX PART NO:
MUSB12-01-248
MATRIX USB [Pin Number] [Plating] [Series number]
01:Gold Flash
15:15u"
30:30u"

USB TYPE-C FULL-FEATURED RECEPTACLE INTERFACE PIN ASSIGNMENTS

PIN	Signal Name	Description	PIN	Signal Name	Description
A1	GND	Ground return	B12	GND	Ground return
A2	SSTxp1	Positive half of first SuperSpeed TX differential pair	B11	SSRxpl	Positive half of first SuperSpeed RX differential pair
A3	SSTxn1	Negative half of first SuperSpeed TX differential pair	B10	SSRxn1	Negative half of first SuperSpeed RX differential pair
A4	Vns	Bus Power	B9	Vns	Bus Power
A5	CC1	Configuration Channel	B8	SBU2	Sideband Use (SBU)
A6	Dp1	Positive half of the USB 2.0 differential pair=Position 1	B7	Dn2	Negative half of the USB 2.0 differential pair=Position 2
A7	Dn1	Negative half of the USB 2.0 differential pair=Position 1	B6	Dp2	Positive half of the USB 2.0 differential pair=Position 2
A8	SBU1	Sideband Use (SBU)	B5	CC2	Configuration Channel
A9	Vns	Bus Power	B4	Vns	Bus Power
A10	SSRxm2	Negative half of second SuperSpeed RX differential pair	B3	SSTxm2	Negative half of second SuperSpeed TX differential pair
A11	SSRxp2	Positive half of second SuperSpeed RX differential pair	B2	SSTxp2	Positive half of second SuperSpeed TX differential pair
A12	GND	Ground return	B1	GND	Ground return



Matrix Electronics Co.,Ltd

TOLERANCE: X.X ±0.25 X.XX ±0.15 X.XXX ±0.05 ANGLE: ±3°	DESIGN BY : Phebe Su	DATE : 2018/08/08	PART NAME: USB 3.1 Type C Female R/A, Pod type, CL 2.53
APPROVED BY1: Richard Hsieh	CHECKED BY: Vicky Hsieh	DATE : 2018/08/08	PART NO. MUSB12-01-248
APPROVED BY2: Richard Hsieh	DATE : 2018/08/08	MOLD NO. NA	DRAW NO.
SCALE:1:1	SIZE:A4	SHEET NO.	1 OF 1

