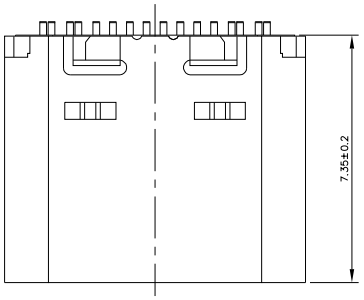
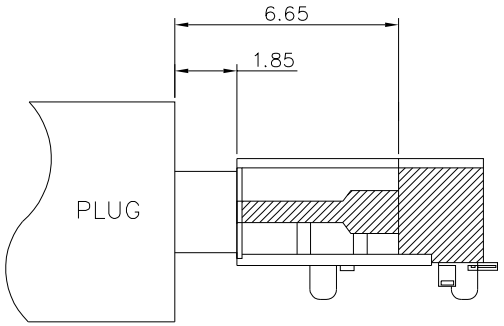
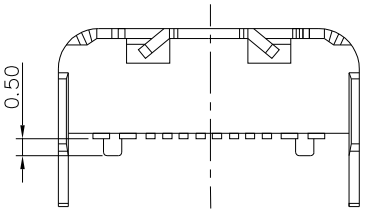
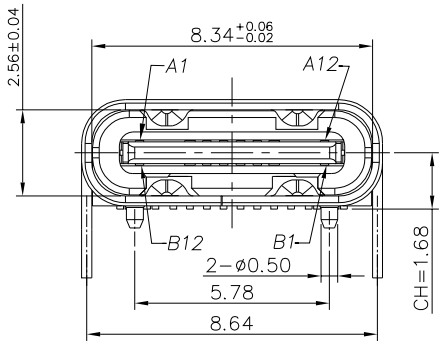
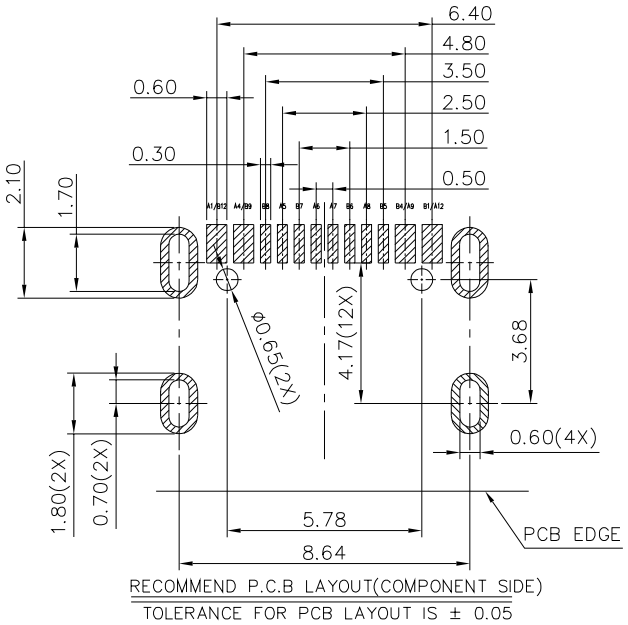
ROHS

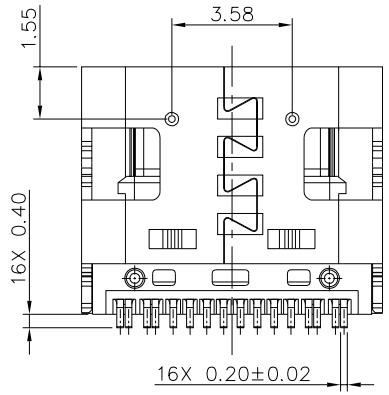


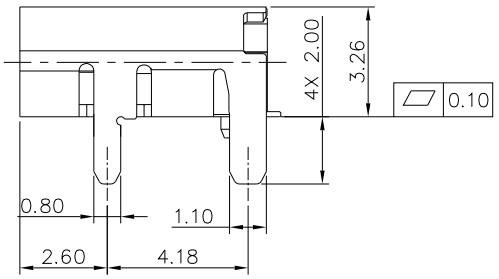












NOTE:
1.Material and Plating: Refer to Appendix 1
2.Electrical Performance:
2.1 Contact impedance: 30MΩ Max FDR INITIAL.
40MΩ Max AFTER TEST.
2.2 Withstand Voltage: 100V AC
2.3 Insulation: 100mΩ Min
2.4 Operating Temperature: −40· ~80·
3.mechanical properties
3.1 insertion force: 5~20N
3.2 Pull out force: Initial value 8~20N,
tested 6~20N
3.3 lifespan: 10,000 CYCLES

A1	GND	B12	GND
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	DP1	B7	DN2
A7	DN1	B6	DP2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND
PIN	SIGNAL NAME	PIN	SIGNAL NAME

ITEM	PART NAME	TER'NO.	QTY.	MATERIAL	FINISHING	REMARK
④	Shell	——	1	SUS	——	——
③	Housing	——	1	LCP	Black	——
②	Mid Plate	——	1	SUS	——	——
①	Contacts	——	1 set	C2680−H	Au Plated	——

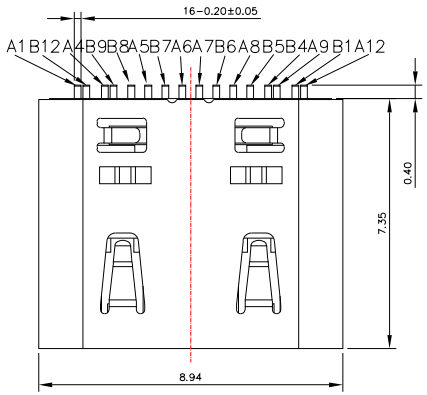
APPROVALS		DATE
DRAWN		
CHECKED		
APPROVALS		

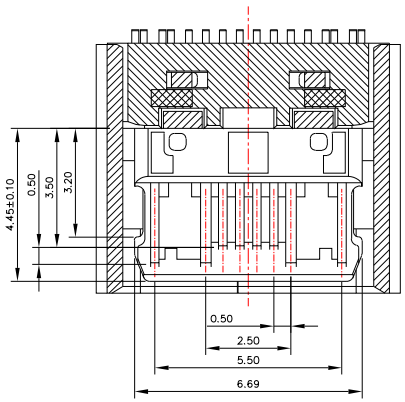
TOLERANCES ARE: 30~.. ±0.30; 10~30 ±0.20; 5~10 ±0.15; ~ 5 ±0.10; ANGLE ±2°

TITLE:
PART NO. T
UNIT: mm
SCALE: 1:1
PROJ:
DRAWING NO. ——
SHEET 1 OF 1

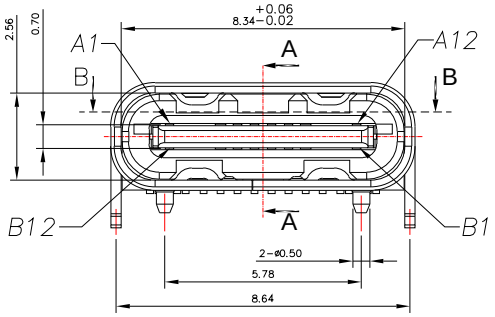
ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.	CHECK.	APPRO.
——	A	——	NEW	——	——	——

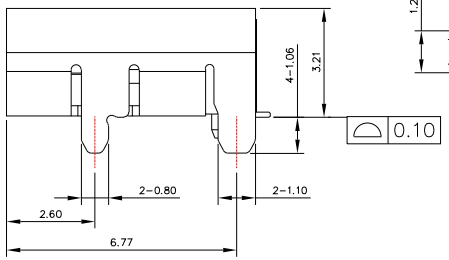
ROHS

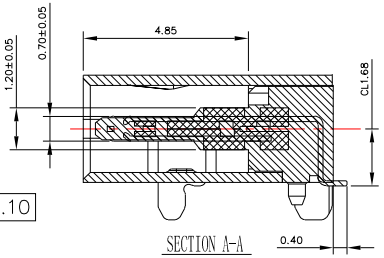




SECTION B-B
SCALE 1:1



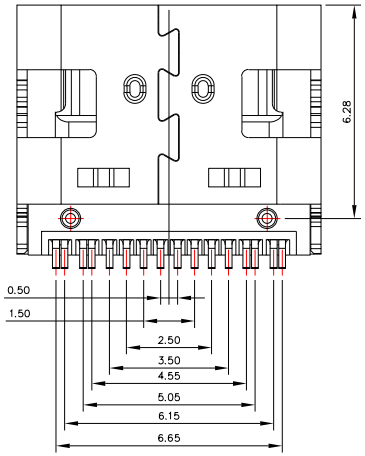


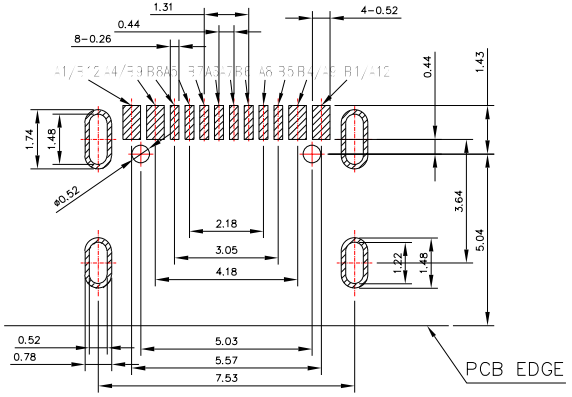


SECTION A-A
SCALE 1:1

NOTE:

1.MATERIAL SPECIFIC/
 1.HOUSING: HIGH TEMPERATURE RESISTANT PLASTIC,UL94 V-0.
 2.CONTACTS: COPPER ALLOY
 3.MID PLATE: STAINLESS STEEL
 4.SHELL: STAINLESS STEEL
2.PLATING SPECIFICATION:
 2-1.CONTACTS:
  Ni 50u" MIN. UNDER PLATED OVER ALL.
  Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
  (GOLD PLATING THICKNESS FOLLOW THE P/N)
  GOLD FLASH PLATING ON SOLDER AREA
 2-2.FRONT SHELL:
  Ni 30u" MIN. UNDER PLATED OVER ALL.
3.MECHANICAL PERFORMANCE,
 3-1.INSERTION FORCE: 0.5~2.0kgf.
 3-2.REMOVAL FORCE: 0.8kgf~2.0kgf.
 3-3.DURABILITY: 10000 CYCLES.
4.ELECTRICAL PERFORMANCE,
 4-1. CURRENT RATING: 5A
  VOLTAGE RATING: 20V
 4-2.INSULATION RESISTANCE: 100MΩ MIN
 4-3.DIELECTRIC WITHSTAND VOLTAGE,AC 100V FOR 1 MINUTE.
 4-4.LOW CONTACT RESISTANCE: INITIAL 40mΩ
  AFTER 50mΩ
5. ENVIRONMENTAL PERFORMANCE:
 OPERATING TEMPERATURE: -30°C~+80°C.
6.IR REFLOW:
 THE PEAK TEMPERATURE ON THE BOARD SHALL
 BE MAINTAINED FOR 10 SECONDS AT 260°C.





RECOMMEND P.C.B LAYOUT(COMPONENT SIDE)
TOLERANCE FOR PCB LAYOUT IS ± 0.05

USB TYPE-C PIN ASSIGNMENTS

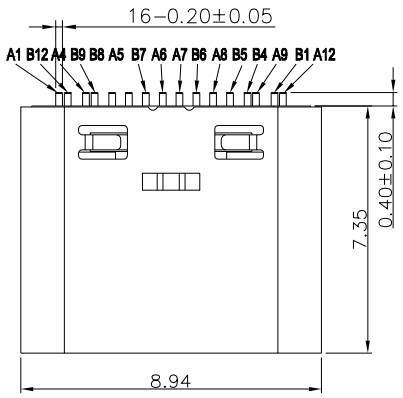
PIN NUMBER	SIGNAL NAME
A1	GND
A4	VBUS
A5	CC1
A6	Dp1
A7	Dn1
A8	SBU1
A9	VBUS
A12	GND

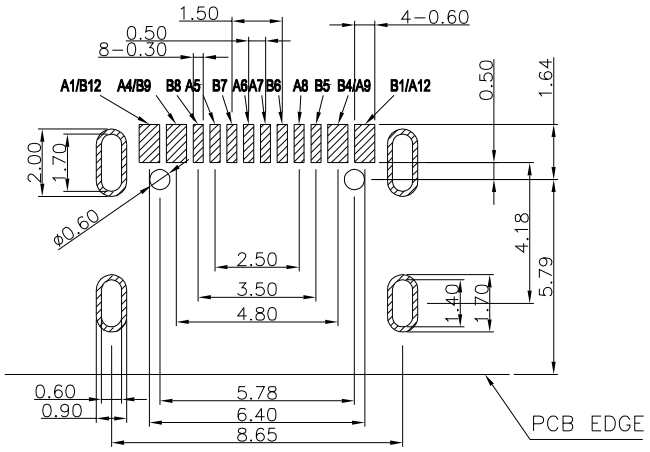
PIN NUMBER	SIGNAL NAME
B12	GND
B9	VBUS
B8	SBU2
B7	Dn2
B6	Dp2
B5	CC2
B4	VBUS
B1	GND

ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.	CHECK.	APPRO.
———	A	———	NEW	———	———	———

APPROVALS		DATE	
DRAWN			
CHECKED			TITLE:
APPROVALS			PART NO. B
TOLERANCES ARE	30~ ±0.30 / 10~30 ±0.20 / 5~10 ±0.15 / ~5 ±0.10	ANGLE ±2°	UNIT: mm / SCALE: 1:1 / PROJ: / DRAWING NO. ——— / SHEET 1 OF 1

ROHS





RECOMMEND P.C.B LAYOUT(COMPONENT SIDE)

TOLERANCE FOR PCB LAYOUT IS ± 0.05

NOTE:

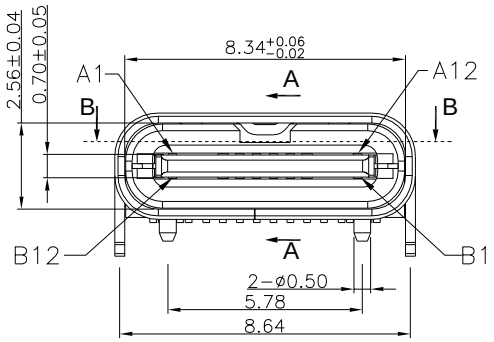
1.MATERIAL SPECIFICATION:
- 1.HOUSING: HIGH TEMPERATURE RESISTANT PLASTIC,UL94 V-0.
- 2.CONTACTS: COPPER ALLOY
- 3.MID PLATE: STAINLESS STEEL
- 4.SHELL: STAINLESS STEEL

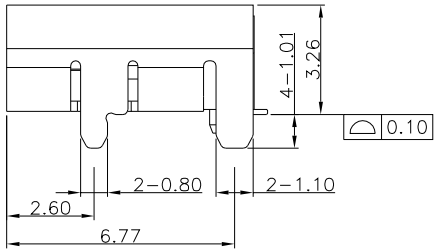
2.PLATING SPECIFICATION:
- 2-1.CONTACTS:
  - Ni 50u" MIN. UNDER PLATED OVER ALL.
  - Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
  - (GOLD PLATING THICKNESS FOLLOW THE P/N)
  - GOLD FLASH PLATING ON SOLDER AREA
- 2-2.FRONT SHELL:
  - Ni 30u" MIN. UNDER PLATED OVER ALL.

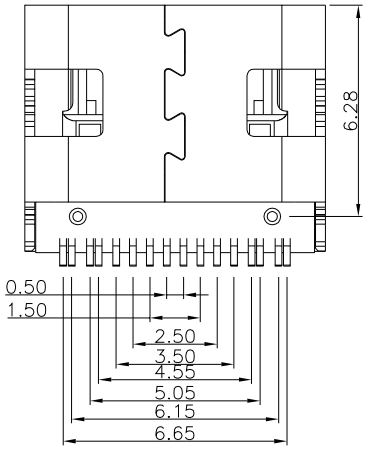
3.MECHANICAL PERFORMANCE,
- 3-1.INSERTION FORCE: 5~20N.
- 3-2.REMOVAL FORCE: 8~20N.
- 3-3.DURABILITY: 10000 CYCLES.

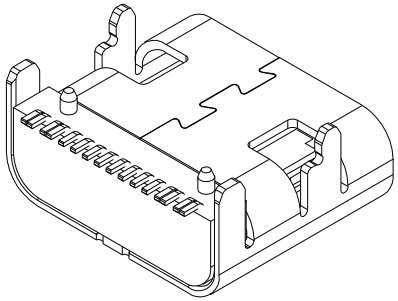
4.ELECTRICAL PERFORMANCE,
- 4-1. CURRENT RATING: 6A
  - VOLTAGE RATING: 20V
- 4-2.INSULATION RESISTANCE: 100MΩ MIN
- 4-3.DIELECTRIC WITHSTAND VOLTAGE,AC 100V FOR 1 MINUTE.

5. ENVIRONMENTAL PERFORMANCE:
- OPERATING TEMPERATURE: -30°C~+85°C.







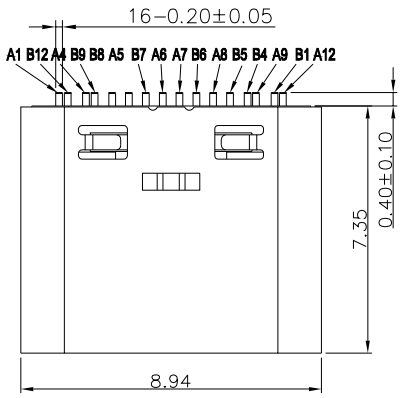


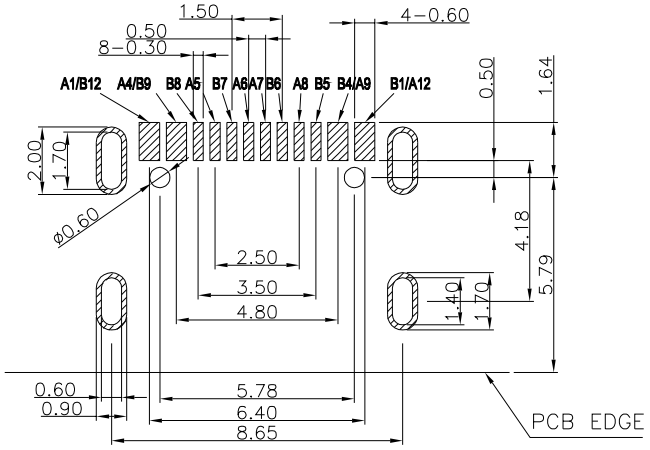
A1	GND	B12	GND
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	DP1	B7	DN2
A7	DN1	B6	DP2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND
PIN	SIGNAL NAME	PIN	SIGNAL NAME

———	A	———	NEW	———	———	———
ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.	CHECK.	APPRO.

APPROVALS		DATE				
DRAWN						
CHECKED			TITLE:			
APPROVALS			PART NO.	T		
TOLERANCES ARE	30~..	±0.30	ANGLE	UNIT: mm	SCALE: 1:1	PROJ:
	10~30	±0.20				
	5~10	±0.15	±2°	DRAWING NO.	———	SHEET 1 OF 1
	~ 5	±0.10				

ROHS





RECOMMEND P.C.B LAYOUT(COMPONENT SIDE)

TOLERANCE FOR PCB LAYOUT IS ± 0.05

NOTE:

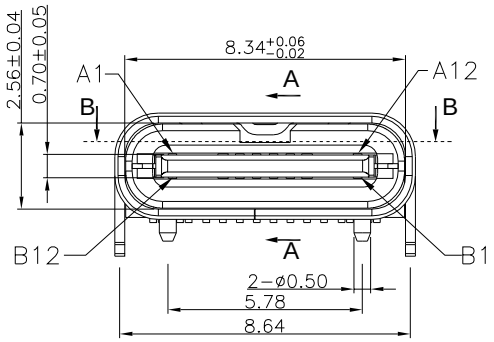
1.MATERIAL SPECIFICATION:
- 1.HOUSING: HIGH TEMPERATURE RESISTANT PLASTIC,UL94 V-0.
- 2.CONTACTS: COPPER ALLOY
- 3.MID PLATE: STAINLESS STEEL
- 4.SHELL: STAINLESS STEEL

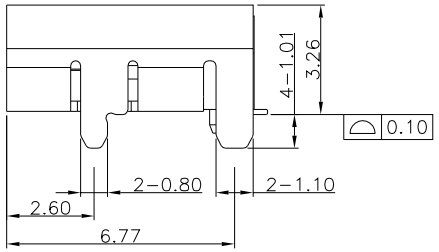
2.PLATING SPECIFICATION:
- 2-1.CONTACTS:
  - Ni 50u" MIN. UNDER PLATED OVER ALL.
  - Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
  - (GOLD PLATING THICKNESS FOLLOW THE P/N)
  - GOLD FLASH PLATING ON SOLDER AREA
- 2-2.FRONT SHELL:
  - Ni 30u" MIN. UNDER PLATED OVER ALL.

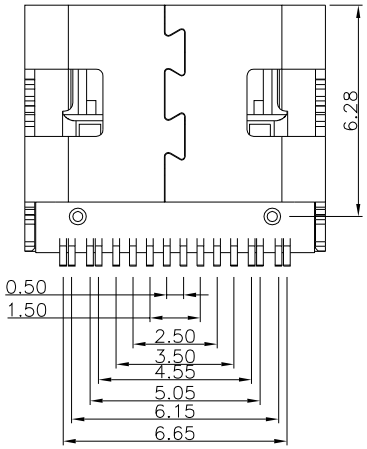
3.MECHANICAL PERFORMANCE,
- 3-1.INSERTION FORCE: 5~20N.
- 3-2.REMOVAL FORCE: 8~20N.
- 3-3.DURABILITY: 10000 CYCLES.

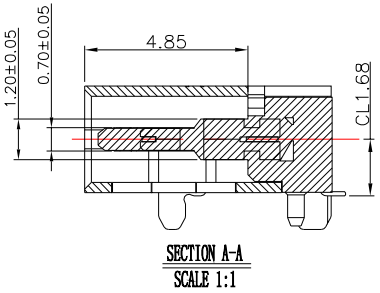
4.ELECTRICAL PERFORMANCE,
- 4-1. CURRENT RATING: 5A
  - VOLTAGE RATING: 20V
- 4-2.INSULATION RESISTANCE: 100MΩ MIN
- 4-3.DIELECTRIC WITHSTAND VOLTAGE,AC 100V FOR 1 MINUTE.

5. ENVIRONMENTAL PERFORMANCE:
- OPERATING TEMPERATURE: -30°C~+85°C.



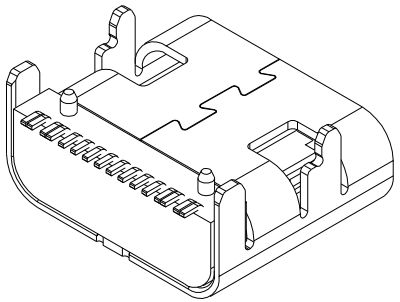






SECTION A-A

SCALE 1:1



A1	GND	B12	GND
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	DP1	B7	DN2
A7	DN1	B6	DP2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND
PIN	SIGNAL NAME	PIN	SIGNAL NAME

———	A	———	NEW	———	———	———
ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.	CHECK.	APPRO.

APPROVALS		DATE					
DRAWN							
CHECKED					TITLE:		
APPROVALS					PART NO.	T	
TOLERANCES ARE	30~..	±0.30	ANGLE		UNIT: mm	SCALE: 1:1	PROJ:
	10~30	±0.20					
	5~10	±0.15	±2°		DRAWING NO.	———	SHEET 1 OF 1
	~ 5	±0.10					