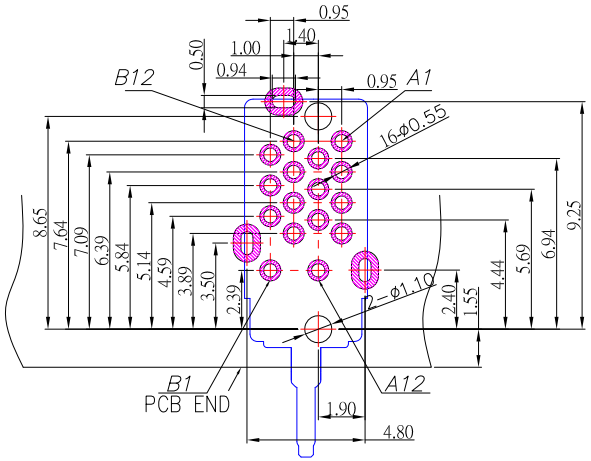
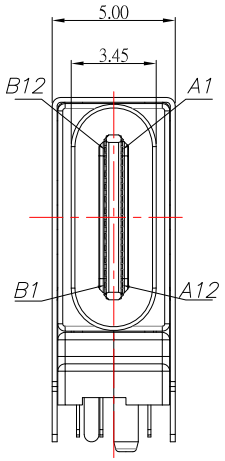
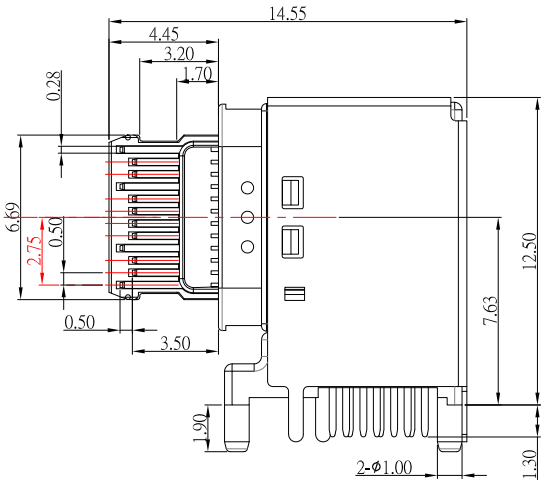
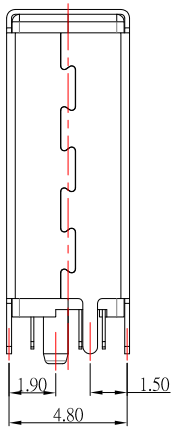


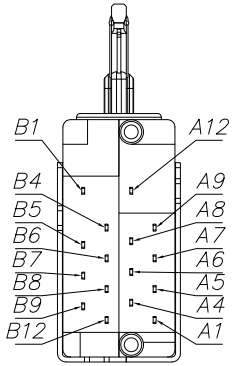



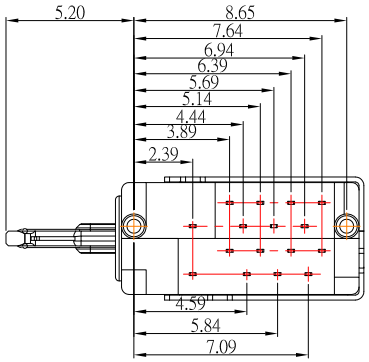

RECOMMENDED P.C.B. LAYOUT




| 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 | SSRXp1 | 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 | VBUS | Bus Power | B9 | VBUS | 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 | VBUS | Bus Power | B4 | VBUS | Bus Power |
| A10 | SSRXn2 | Negative half of second SuperSpeed RX differential pair | B3 | SSTXn2 | 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 |

RoHS Compliant

# SBC-160P-20x-S235

鍍層厚度 :

| |
|---|
| Blank : 1u" |
| 2 : 15u" |
| 3 : 30u" |

## SPECIFICATIONS

**Electrical:**

1.Rating: 5.0 A for VBUS
0.25A for OTHER

2.Dielectric Withstand Voltage: 250V AC

3.Contact Resistance: 40 mΩ Max

4.Insulation Resistance: 100 MΩ Min

**Mechanical:**

1.Connector Mate and Unmate Force
1.1 Mate force: 5~20 N
1.2 Unmate force: 8~20 N

**Material:**

1.Housing: LCP

2.Contact: Copper Alloy

3.Shell: SUS

**Finish:**

1.Contact: Plated Gold in Mating Area ;
Tin Plated on Solder Balls ;
Nickel under plated overall

2.Shell: Nickel under Plated surface layer

| ITEM NO. | DESCRIPTION | DRAWN | DATE |
|---|---|---|---|
| 2 | 新增PCB LAYOUT尺寸 | Jack | 011520 |
| 1 | 更新料號 | Jack | 111419 |

CONTACT 建倚科技股份有限公司
CONTACT TECHNOLOGY CORP.

TOLERANCE UNLESS OTHERWISE STATED : Up to 5 ±0.2; Above 5 ~ 15 ±0.3; Above 15 ~ 30 ±0.4; Above 30 ~ 50 ±0.5; Angle ±0.3°

3RD. ANGEL'S

UNITS MM

| | | | |
|---|---|---|---|
| DRAWN BY: Jack Lu | DATE 01/15/20 | MAT'L | |
| CHECKED BY: Jacky Chen | DATE 01/15/20 | FINISH | |
| APPROVED BY: Tony Kao | DATE 01/15/20 | SCALE 1 : 1 | SHEET NO. 1 of 1 |

| | | | |
|---|---|---|---|
| TITLE | CONNECTOR | | |
| MODLE | USB 3.1 側插母座 16 PIN | | |
| DWG NO. | SBC-160P-20x-S235 | SIZE | A4 |
| PART NO. | SBC-160P-20x-S235 | VER | R2 |