

| REV | DESCRIPTION     | DATE     |
|-----|-----------------|----------|
| A   | Initial Release | 16.12.12 |

NOTES:

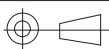
- 1.0 ELECTRICAL CHARACTERISTICS:  
1.1 LOW LEVEL CONTACT RESISTANCE:  
INITIAL: 40mOhm FOR ALL CONTACT MAX.  
AFTER: 50mOhm MAX.  
1.2 DIELECTRIC WITHSTANDING VOLTAGE:  
100 VAC OR 1 MINUTE SEE LEVEL  
1.3 INSULATION RESISTANCE:  
100MOhm MIN.  
1.4 CURRENT RATING:  
VBUS AND GND CONTACTS RATED AT 1.5A.  
PARALLELED OR A TOTAL OF 3A  
  
2.0 MECHANICAL CHARACTERISTICS:  
2.1 INSERTION FORCE: 5N MIN. 20N MAX.  
2.2 EXTRACTION FORCE:  
DURABILITY 1~1,000 CYCLES 8N MIN. 20N MAX.  
DURABILITY 1,001~10,000 CYCLES 6N MIN. 20N MAX.  
2.3 DURABILITY: 10,000 CYCLES  
  
3.0 OPERATING TEMPERATURE: -40°C TO +80°C

PART NUMBER CODE

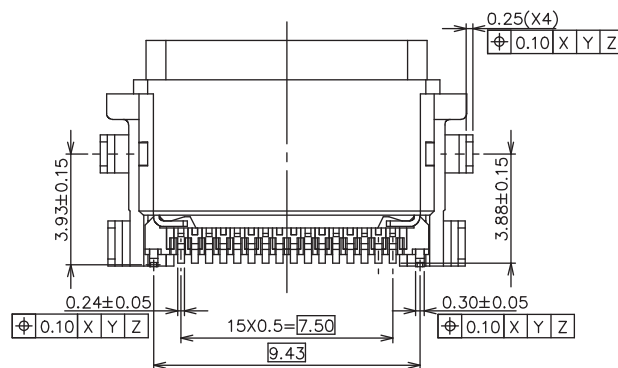
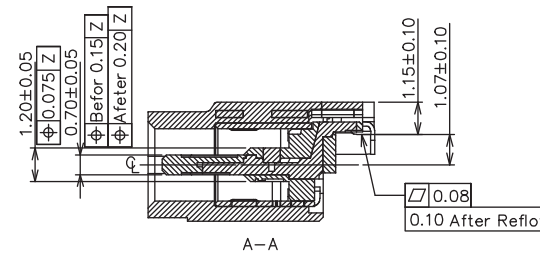
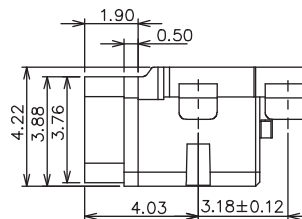
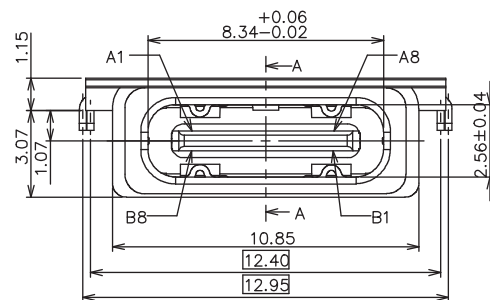
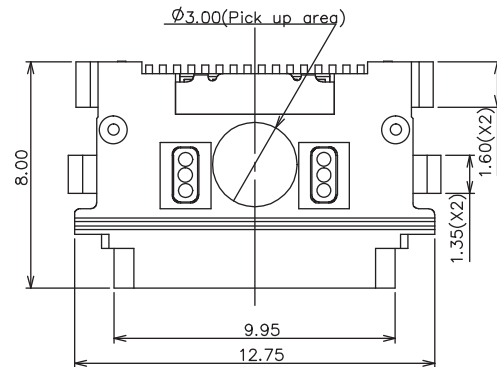
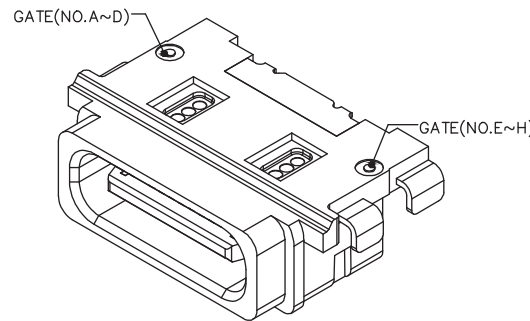
UB20CR03- PSP7- 16 F K xx x x x  
1 2 3 4 5 6 7

1. Contact Positions:  
16: 16 pins  
2. Contact Type:  
F: Female Receptacle  
3. Insulator Color  
K: Black  
4. Contact Plating:  
01: Selective G/F  
30: 30u" Selective Gold  
3G: 30u" Gold Front Contact, G/F Solder Tails  
5. Shell Plating:  
N: Solderable Nickel  
6. Housing Material:  
5: PA46  
7. Packing :  
R: Tape & Reel

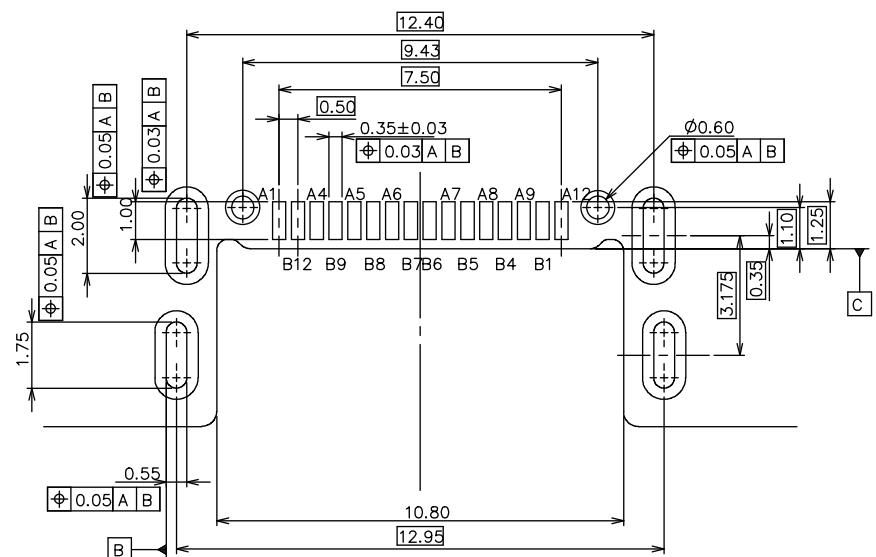
|      |               |      |                                   |
|------|---------------|------|-----------------------------------|
| 4    | PLASTIC SHELL | 1    | HIGH-TEMPERATURE PLASTIC ,UL94-V0 |
| 3    | GROUND PLATED | 2    | STAINLESS STEEL/NI PLATED         |
| 2    | CONTACT       | 16   | COPPER ALLOY/SEE TABLE A          |
| 1    | HOUSING       | 1    | HIGH-TEMPERATURE PLASTIC, UL94-V0 |
| ITEM | NAME          | Q'TY | MATERIAL / FINISH                 |

|                                                                                                                         |          |                                                                                        |   |          |             |                                                                                       |  |
|-------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------|---|----------|-------------|---------------------------------------------------------------------------------------|--|
| <div> PANSTRONG COMPANY LTD.</div> |          |                                                                                        |   | DRAWN BY |             | TOMMY                                                                                 |  |
|                                                                                                                         |          |                                                                                        |   | CHECKED  |             |                                                                                       |  |
|                                                                                                                         | TITLE:   | USB 2.0 Type-C 16Pin<br>Receptacle Mid Mount CH=1.07,<br>IPX7, Plastic Shell, SMT Type |   |          | APPROVED    |                                                                                       |  |
|                                                                                                                         |          |                                                                                        |   |          | DRAWING NO. |                                                                                       |  |
|                                                                                                                         | PART NO: | UB20CR03-PSP7-16FKxxxxx                                                                |   |          |             |                                                                                       |  |
| SCALE                                                                                                                   | 6:1      | REV                                                                                    | A | UNIT     | mm          |  |  |

|                                       |            |
|---------------------------------------|------------|
| TOLERANCES UNLESS OTHERWISE SPECIFIED |            |
| GENERAL                               | X .40.38   |
|                                       | .X .40.25  |
|                                       | .XX .40.13 |
|                                       | .XXX.00.09 |
| ANGLES                                | X .45.0°   |
|                                       | .X .42.0°  |
|                                       | .XX .41.0° |



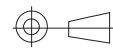
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RECOMMENDED PCB LAYOUT  
TOLERANCE±0.05

|             |     |      |      |     |     |      |      |     |
|-------------|-----|------|------|-----|-----|------|------|-----|
| PIN NO.     | A1  | A4   | A5   | A6  | A7  | A8   | A9   | A12 |
| SIGNAL NAME | GND | VBUS | CC1  | Dp1 | Dn1 | SBU1 | VBUS | GND |
| PIN NO.     | B12 | B9   | B8   | B7  | B6  | B5   | B4   | B1  |
| SIGNAL NAME | GND | VBUS | SBU2 | Dn2 | Dp2 | CC2  | VBUS | GND |

TOLERANCES UNLESS  
OTHERWISE SPECIFIED  
GENERAL X .40.38  
.X .40.25  
.XX .40.13  
X .0060.05  
X .03.02  
X .02.01  
X .01.01

|                                                                                                              |          |                                                                                        |       |                                                                                       |
|--------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|
|  PANSTRONG COMPANY LTD. | DRAWN BY |                                                                                        | TOMMY |                                                                                       |
|                                                                                                              | CHECKED  |                                                                                        |       |                                                                                       |
| TITLE:                                                                                                       |          | USB 2.0 Type-C 16Pin<br>Receptacle Mid Mount CH=1.07,<br>IPX7, Plastic Shell, SMT Type |       | APPROVED                                                                              |
| PART NO:                                                                                                     |          | UB20CR03-PSP7-16FKxxxxx                                                                |       | DRAWING NO.                                                                           |
| SCALE                                                                                                        |          | 6:1                                                                                    | REV   | A                                                                                     |
|                                                                                                              |          | UNIT                                                                                   | mm    |  |