



Recommended P.C.B Layout

| No | Part Name       | Material              | Final         |
|----|-----------------|-----------------------|---------------|
| 1  | Housing         | Nylon-4T,Color: Blue  |               |
| 2  | 1~4 Pin Contact | Brass,t=0.25          |               |
| 3  | 5~9 Pin Contact | Phosphor Bronze,t=0.2 |               |
| 4  | Shell           | SPCC,t=0.3            | Nickel Plated |

- Material and Finish:
- Insulator Material: Nylon-4T,UL94V-0,Color:Blue
  - Contact Material: Copper Alloy
  - Contact Plated:  
Contact Aear Plated: 30u" Gold Plated  
Solder Aear Plated: 100~200u" Tin Plated  
Underplated: 80u" Nickel Plated
  - Shell Material: SPCC,t=0.3
  - Shell Plated: Nickel Plated
  - Current Rating: 1.8 Amps Max.  
(PIN1,PIN4)all Other contacts 0.25A Min.
  - Contact Resistance: 30m ohms Max.
  - Insulation Resistance: 100M ohms Min.
  - Dielectric Withstanding Voltage: 100V AC/minute.
  - Operating Temperature: -20°C to +85°C

| Pin Assignments |             |
|-----------------|-------------|
| Pin No.         | Signal Name |
| 1               | VBUS        |
| 2               | D-          |
| 3               | D+          |
| 4               | GND         |
| 5               | StdA_SSRX-  |
| 6               | StdA_SSRX+  |
| 7               | GND_DRAIN   |
| 8               | StdA_SSTX-  |
| 9               | StdA_SSTX+  |
| Shell           | Shield      |

| Description  |            |
|--|------------|
| USB3.0 A Plug, Middle Board Mount DIP Type ,30u" Gold Plating      |            |
| UNLESS OTHERWISE SPECIFIED TOLERANCE                               |            |
| ANG.   | ±5         |
| 0.   | ±0.3       |
| .0   | ±0.25      |
| .00  | ±0.20      |
| SCALE: AS SHOWN  | UNIT: mm   |
| DRAWN Willis   | 2010/03/29 |
| CHECKED Angel  | 2010/03/29 |
| APPROVED Ken   | 2010/03/29 |
| DRAWN NAME: USB 3.0 A Plug<br>Middle Board Mount DIP Standard Type |            |
| PRODUCT NO. USB-A-DG02P  |            |
| FILE NAME:   |            |



| REV. | DESCRIPTION | DATE | SIZE |
|------|-------------|------|------|
| 1    |             |      | A4   |
| 2    |             |      |      |
| 3    |             |      |      |
| 4    |             |      |      |
| 5    |             |      |      |
| 6    |             |      |      |
| 7    |             |      |      |
| 8    |             |      |      |
| 9    |             |      |      |
| 10   |             |      |      |