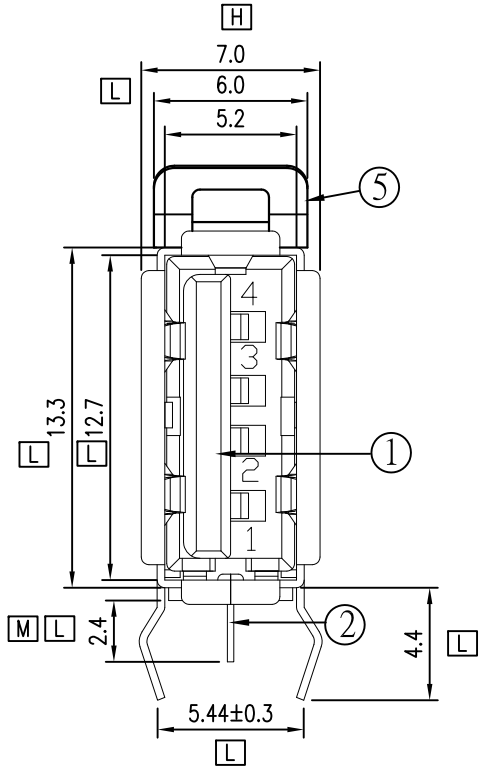
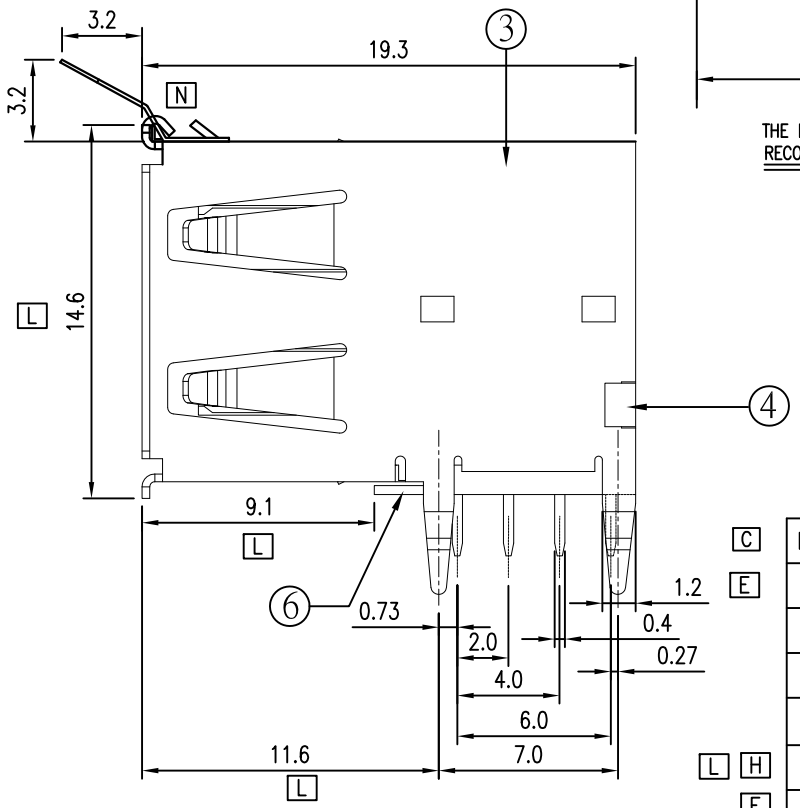
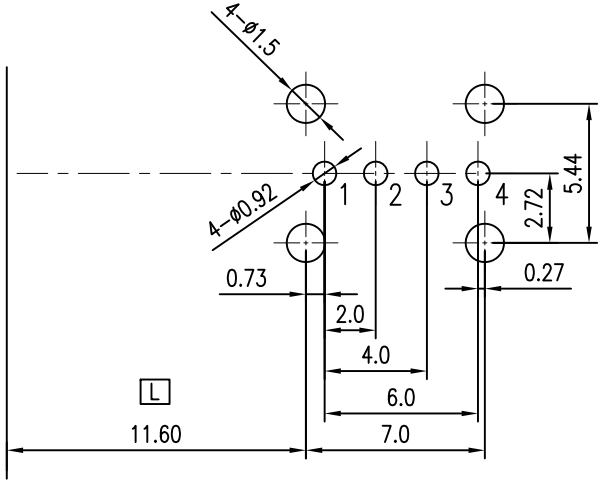
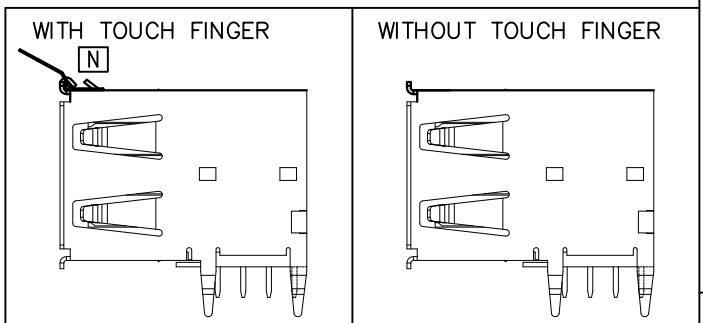






THE EDGE OF THE CONNECTOR
RECOMMENDED PCB THICKNESS=1.60±0.05mm

K



C

No.	PART NAME	DESCRIPTION	THICKNESS	QTY	REMARK
1	HOUSING	See Order Info.		1	
2	CONTACT	Phosphor Bronze	0.25mm	4	
3	FRONT SHELL	BRASS	0.3mm	1	
4	BACK SHELL	STEEL	0.3mm	1	See Order Info.
5	TOUCH FINGER	SUS 301	0.15mm OR 0.3mm(FOR OPTION C)	1	See Order Info.
6	INSERT	See Order Info.		1	

TOLERANCE	
H LINEAR	ANGLES
X.±0.40	X°.±3°
.X±0.30	.X°±3°
.XX±0.20	.XX°±3°
.XXX±0.15	.XXX°±3°

GENESIS TECHNOLOGY, INC
a Genesis Electro-Mechanical Company
1015 GRANT STREET S.E.
ATLANTA, GA 30315

APPD:	MAT'L:
CHKD:	FINISH:
DRWN: AXL	Q'TY:

TITLE: USB A TYPE UPRIGHT 90° DIP

PART NO.	USB-AR301XXXXX
DWG NO.	SC-10076

UNITS	SCALE	SHEET	REV
MM	NONE	1 OF 3	N

□	SEE SHEET 2 OF 3		
REV	ECN NO.	NAME	DATE

[D] [F] [K] Order Information

USB–A R 301 X X XX X

- Option:
  - F= With Touch Finger, With Back Shell
  - A= With Touch Finger, Without Back Shell
  - B= Without Touch Finger, Without Back Shell
  - X= Without Touch Finger, With Back Shell
  - [L] C= With 0.3mm Thickness Touch Finger, With Back Shell
- Plating: (Selective Gold Plating on Contact area)
  - S1= Gold Flash
  - S2= 5u"
  - S3= 10u"
  - S4= 15u"
  - S5= 30u"
  - S6= 50u"
  - S7= Special Plating Request by Customer
- Shell Plating Option
  - 0: Nickel Plating
- Housing Color and Material
  - 2= Black, PBT+30%GF [E]
  - 3= White, PBT+30%GF
  - 4= Black, NY9T
  - 5= White color, NY9T [H] [I]
  - 6= Blue color, PBT+30%GF
- Tooling Family
- Type:
  - R= Receptacle
  - P= Plug
- USB–A Series

For Multiple Ports with Multiple Series Please Contact Manufacture for More Information

REV	ECN NO.	NAME	DATE
[N]	CORRECT ILLUSTRATION OF ZONE B3 ON SHEET 1	AXL	1/3/12'
[M]	CORRECT MEASURED POINT ERROR ON ZONE C1 OF SHEET 1	AXL	11/22/11'
[L]	REVISE NOTES 1b., ADD OPTION FOR 0.3mm THICK TOUCH FINGER AND SHEET 3 CORRECTED DIMENSIONS	AXL	7/21/11'
[K]	REVISE DRAWING & PN	DANIEL	06/29/10'
[J]	ADD PAGE 2 "WITHOUT SPRING FINGER" DWG	VEGAS	12/10/09'
[I]	ADD BLUE COLOR PBT OPTION	VEGAS	11/3/09'
[H]	REVISE DRAWING & TOLERANCE & PN, REVISE NOTES 2.a; 2.b; 3.g	VEGAS	3/24/09'
[G]	REVISE NOTES 4.a	AXL	10/7/08'
[F]	ADD MATERIAL OPTION	AXL	10/2/08'
[E]	CHANGE MATERIAL FROM PBT TO NY9T	AXL	9/24/08'
[D]	CHANGE PART NUMBER NAD CORRECT NOTES	AXL	5/6/08'
[C]	UPDATED DRAWING AND ADD SHEET 2	AXL	8/8/07'
[B]	ADD RoHS COMPLIANT	AXL	9/1/05'
[A]	ISSUED	AXL	8/31/05'

PART NO.	USB–AR301XXXXX	SHEET	REVISION
DWG NO.	SC–10076	2 OF 3	N

Notes:

1. Electrical:
   a. Voltage Rating: 30VDC Max. (r.m.s)
   b. Current Rating: 1.5A at 250V AC.
   c. Insulation Resistance: 1000M ohms min.
   d. Dielectric Withstand Voltage: AC 100V/1 minute.
   e. Contact Resistance: 30 m ohms max. initial;

2. Mechanical:
   a. Material:
      Contacts: Phosphor Bronze.
      Housing&Cover/Flammability Rating: See Order Information, UL94V-0
      Shell/Touch finger: Brass(Front), Steel (Back), SUS 301(Touch finger).

   b. Plating:
      Contacts: Gold plated Optional (see order information).
      50u'' nickel underplated overall.
      Shell: 100u" Nickel.
      Touch finger: None-plated
   c. Durability: USB 1,500 Cycles.
   d. Mating force: USB 35N Max.
      Unmating force: USB 10N Min.
   e. Coplanarity of SMT Leads: Not Applicable.
   f. Solderability: More than 95% of solderable area shall be covered with solder after 5~10 seconds flux(No clean flux)deep.
   g. Soldering Profile: 5~10 seconds without remarkable deterioration.
      remarkable deterioration.

MATERIAL	TEMP.
PBT	230±5°C
NY9T	260±5°C

3. Environmental:
   a. Operating/Storage Temperature: -40°C to +85°C.
   b. Temperature Life: A temperature of 60±5°C for 96hours.
   c. Salt Spray test shall be tested per ASTM 117 for 4 hours.
   d. Steady State Humidity: 90%~95% humidity on 40±3°C for 96hours.
   e. Thermal Shock: 10 cycles of -55±5°C to 85±5°C.
   f. Shock: No discontinuities of 1 us or longer duration when mated USB connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
   g. Vibration: No discontinuities of 1us of longer duration when mated USB conn. are subjected to 5.35Gs RMS. 15min. in each of three mutually perpendicular planes.
   h. After enviromental test, USB connector contact resistance should not increase to 40m ohms max.

4. Compliance:
   a. USB 2.0 VERSION COMPLIANT WITH PLATING EXCEPTION OF GOLD ON TERMINALS AND EXCEPTION OF EIA-364 TEST REQUIREMENTS.
   b. RoHS 6/6 Compliant.

PART NO.	USB-AR301XXXXX	SHEET	REVISION
DWG NO.	SC-10076	3 OF 3	N