

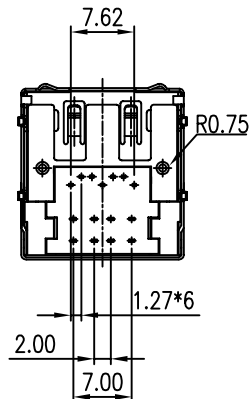
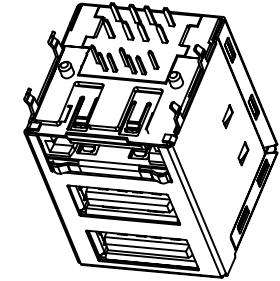
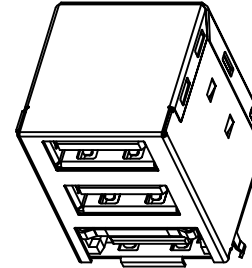
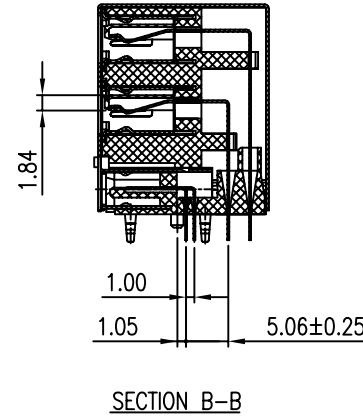
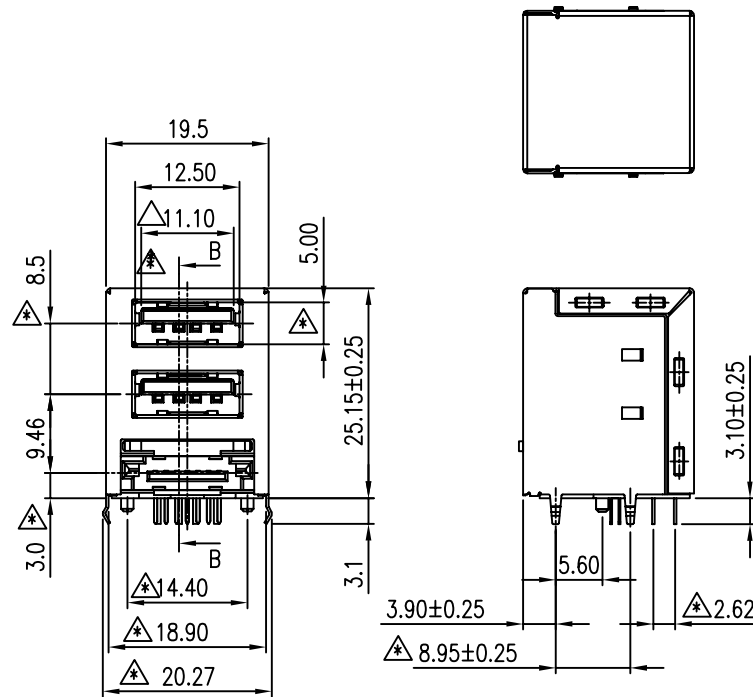
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# CUSTOMER DRAWING ORIGINAL



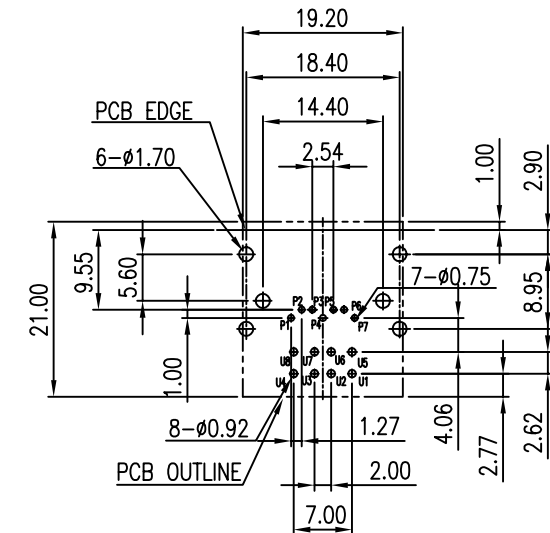
## REVISIONS

| SYM | ECN No. | DESCRIPTION         | DATE       | APPROVED |
|-----|---------|---------------------|------------|----------|
| A   |         | UNAPPROVED REVISION | 02/01/2007 | HC Liu   |

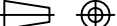


### NOTES:

1. E-SATA HOUSING: NYLON 46, UL 94V-0, COLOR- BLACK, RED OR YELLOW
2. USB HOUSING: NYLON 66, UL 94V-0,COLOR- BLACK
3. SHELL: BRASS, NICKEL PLATING
4. E-SATA CANTACT: BRASS, GOLD PLATING OVER NICKEL  
ON CONTACT AREA, TIN PLATING ON SOLDER TAIL
5. USB CONTACT: PHOSPHER BRONZE, GOLD PLATING OVER NICKEL ON  
CONTACT AREA, TIN PLATING ON SOLDER TAIL
6. THIS PRODUCT DOESN'T CONTAIN ENVIRONMENTAL HAZARDOUS  
MATERIALS PER DIRECTIVE 2002/95/EC FOR RoHS.
7. THE PRODUCT MUST BE FOR DIP PROCESS ONLY
8. ⚠ ARE CRITICAL DIMENSIONS



RECOMMEND PCB LAYOUT (THICKNESS:1.6MM)  
(ALL TOLERANCE ARE: ±0.05)

| TOLERANCE m/m              |       | APPROVALS   |             | DATE     | TITLE                   |      | <div>Amphenol®</div> <div>Amphenol Corporation</div> <div>Amphenol Taiwan Corporation</div> <div>SCALE N.A.   SHEET 1 OF 1</div> |                      |  |      |
|----------------------------|-------|---|-------------|----------|-------------------------|------|--|----------------------|--|------|
| x.                         | ±0.30 | DRAWN   | XL Wu       | 02/01/07 | G09 SERIES              |      |  |                      |  |      |
| x.x                        | ±0.25 | CHECKED   | Sondra Sang | 02/01/07 | STACKED USB OVER e SATA |      |  |                      |  |      |
| x.xx                       | ±0.15 |   |             |          | PLUG, NORMAL, STACKED   |      |  |                      |  |      |
| x.xxx                      | ±0.08 | APPROVED  | HC Liu      | 02/01/07 | R/A PCB MOUNT, DIP TYPE |      |  |                      |  |      |
| ANGULAR                    | ±2°   |   |             |          |                         |      |  |                      |  |      |
| UNLESS OTHERWISE SPECIFIED |       |  |             | UNIT     | MM                      | SIZE | PART NO.   | DRAWING NO.          |  | REV. |
|                            |       |   |             |          |                         | A4   | G09 17X 23XX WEU   | SKT-G0917X23XXWEU-16 |  | A    |

## PART NUMBER SYSTEM

PNS-G09

Rev.

F

ORIGINAL

G09 X X X X X X X X X X

Series ATA II Conn.  
High Speed Serialized AT  
Attachment II

## Lane Option

- 1: 1 Lane
- 2: 2 Lane
- 4: 4 Lane

## Connector Style

- 1: Right angle board mount plug, normal type
- 2: Right angle board mount plug, reverse type
- 3: Straight board mount plug
- 4: Straight Cable mount receptacle
- 5: Stacked, Right angle board mount plug, normal type
- 6: Up-right board mount plug
- 7: Stacked, Right angle board mount, USB recept., stacked over E-SATA plug
- 8: Stacked, Right angle board mount, IEEE1394 recept. over E-SATA plug

## Shell and Contact Finish

- 2: Contact: 30μ" Gold; Shell: Tin plating
- 3: Contact: 30μ" Gold; Shell: Nickel plating+ Gold Flash
- 4: Contact: 30μ" Gold; Shell: Nickel plating
- 5: Contact: 15μ" Gold; Shell: Nickel plating
- 6: Contact: Gold flash; Shell: Tin plated

## Environment Code

- LF: Sony GP Compliant
- EU: RoHS Compliant

## Extension Code

- Blank: Standard
- A: W/O Logo

## Packing Option

- 0: Tape and reel packing
- 1: Tray packing
- 2: Tube packing

## Material of Insulation of E-SATA

- 0: LCP+30% GF, Black
- 1: PBT+30% GF, Black
- 2: PA9T+30% GF, Black
- 3: Nylon 46, Black
- 4: PBT, Red
- 5: Nylon 46, Yellow
- 6: Nylon 46, Red

## Board Mount Option

- 0: None
- 1: Arrowhead boardlock
- 2: Footprint
- 3: Plastic Posts & Metal Pegs

## Terminal Style

- 0: None (for Cable type)
- 1: SMT
- 2: Dip type
- 3: Press Fit
- 4: IDC Type
- 5: Crimping Type (housing & contact)



- ALL CONTACTS ARE IN 50μ" MIIMUM NICKEL UNDERPLATE
- ALL SPECIFIED NUMBERS ARE MINIMUM THICKNESS OF PLATING.
- THE EXTENSION CODE MAY SUPERSEDE SOME MAJOR SPECIFICATIONS DEFINED BY THIS STANDARD PART NUMBER SYSTEM. FOR PART NUMBER WITH AN EXTENSION CODE. PLEASE REFER TO THE SPECIFIC SET OF DATASHEETS RELEASED FOR THAT EXTENSION CODE.

|                                 |          |           |            |  |                                  |
|---------------------------------|----------|-----------|------------|--|----------------------------------|
| F                               | NE-07089 | HC Lin    | 03/07/2007 | TITLE<br><br>Serial ATA II Connector Part Number   | PRODUCT SERIES<br><br>G09        |
| E                               | NE-06430 | Edward Wu | 12/01/2006 |  |                                  |
| D                               | NE-06325 | Edward Wu | 09/21/2006 |  |                                  |
| C                               | NE-06292 | Edward Wu | 09/01/2006 | This document is the property of Amphenol Corporation and is delivered on the express condition that it is not to be disclosed, reproduced or used, in whole or in part, for manufacture or sale by anyone other than Amphenol Corporation without its prior consent, and that no right is granted to disclose or to use any information in this document. |                                  |
| B                               | NE-05432 | Jeff Liu  | 12/19/2005 |  |                                  |
| A                               |          | Henry Ko  | 08/31/2005 |  |                                  |
| SYM                             | ECN NO.  | APPROVED  | DATE       |  |                                  |
| PREPARED<br><br>XL Wu03/07/2007 |          |           |            | CHECKED<br><br>Sondra Sang03/07/2007   | APPROVED<br><br>HC Liu03/07/2007 |