

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0754770001

Status:

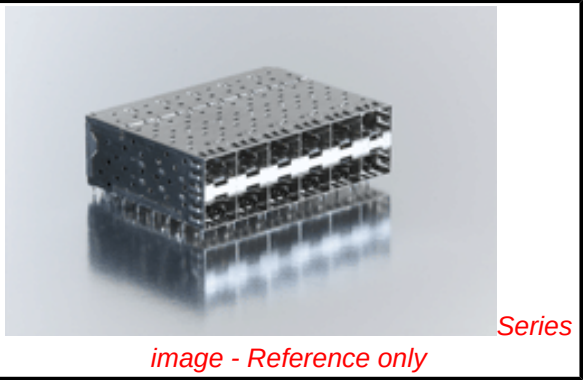
Active

Overview:

sfp\_stacked\_connectors

Description:

Small Form-factor Pluggable (SFP) Stacked 2-by-6 Multi-Port Connector with Press-fit PC Tails, 240 Circuits



Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Application Specification \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

| Agency Certification           |                                |
|--------------------------------|--------------------------------|
| CSA                            | LR19980                        |
| UL                             | E29179                         |
| General                        |                                |
| Product Family                 | I/O Connectors                 |
| Series                         | 75477                          |
| Application                    | Module-to-Board                |
| Component Type                 | Receptacle                     |
| Overview                       | sfp_stacked_connectors         |
| Product Name                   | SFP                            |
| Type                           | N/A                            |
| Physical                       |                                |
| Boot Color                     | N/A                            |
| Circuits (Loaded)              | 240                            |
| Circuits (maximum)             | 240                            |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 100                            |
| Flammability                   | 94V-0                          |
| Gender                         | Female                         |
| Lock to Mating Part            | Yes                            |
| Material - Metal               | High Performance Alloy (HPA)   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin-Lead                       |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 2                              |
| Orientation                    | Right Angle                    |
| PC Tail Length (in)            | 0.084 In                       |
| PC Tail Length (mm)            | 2.07 mm                        |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.063 In                       |
| PCB Thickness Recommended (mm) | 1.60 mm                        |
| Packaging Type                 | Tray                           |
| Panel Mount                    | No                             |
| Pitch - Mating Interface (in)  | 0.031 In                       |
| Pitch - Mating Interface (mm)  | 0.80 mm                        |
| Pitch - Term. Interface (in)   | 0.031 In                       |
| Pitch - Term. Interface (mm)   | 0.80 mm                        |
| Plating min: Mating (µin)      | 30.4                           |
| Plating min: Mating (µm)       | 0.76                           |
| Plating min: Termination (µin) | 30.4                           |
| Plating min: Termination (µm)  | 0.76                           |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Pb

Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)

For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

75477Series

Use With

0759510999 SFP Dust Plug,

Application Tooling | FAQ

Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global

| Description                                    | Product #   |
|------------------------------------------------|-------------|
| SFP Insertion Tool, x 6                        | 20622029925 |
| SFP Stacked Multi-Port Extraction Tool, 2 by 6 | 0622029950  |

|                                |                              |
|--------------------------------|------------------------------|
| Ports                          | 12                           |
| Surface Mount Compatible (SMC) | No                           |
| Temperature Range - Operating  | -40°C to +85°C               |
| Termination Interface: Style   | Through Hole - Compliant Pin |
| Waterproof / Dustproof         | No                           |

**Electrical**

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 0.5A             |
| Shield Type                   | EMI Fingers      |
| Shielded                      | Yes              |
| Voltage - Maximum             | 120V AC (RMS)/DC |

**Solder Process Data**

|                                        |            |
|----------------------------------------|------------|
| Replacement RoHS Compliant Part Number | 0754775001 |
|----------------------------------------|------------|

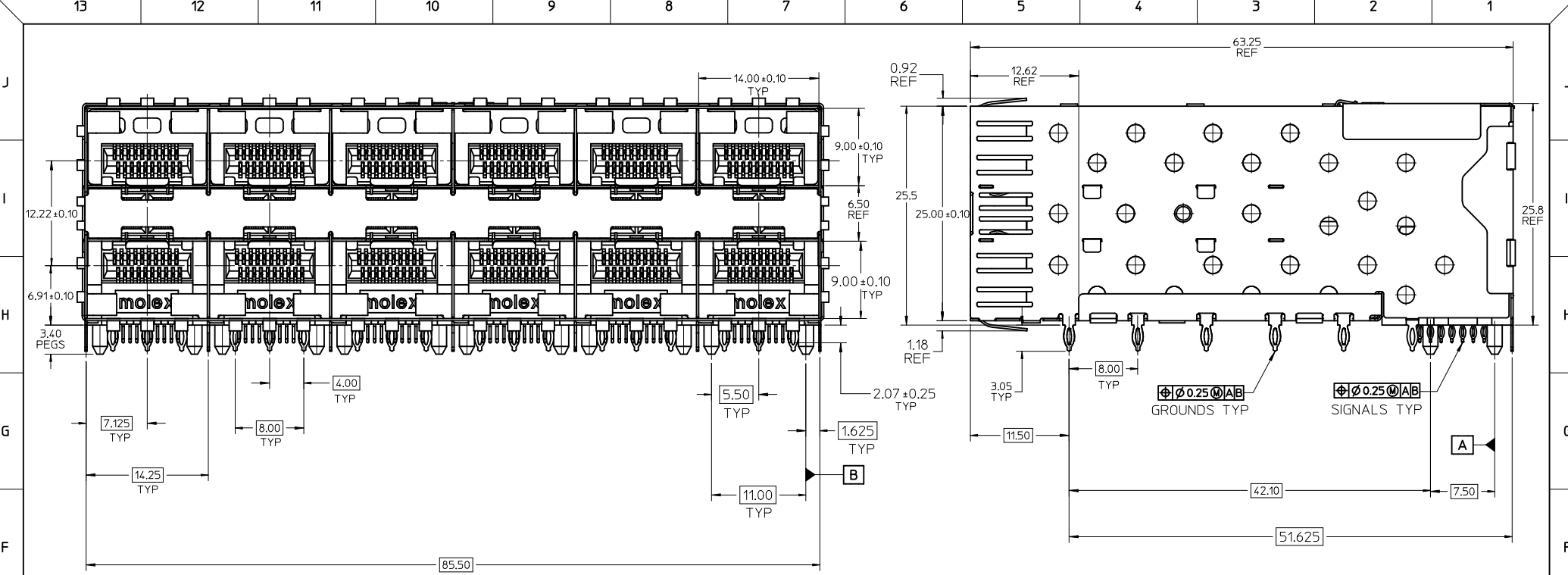
**Material Info**

**Reference - Drawing Numbers**

|                           |                            |
|---------------------------|----------------------------|
| Application Specification | AS-75310-001               |
| Packaging Specification   | PK-75451-001               |
| Sales Drawing             | SD-75477-001, SD-75477-101 |

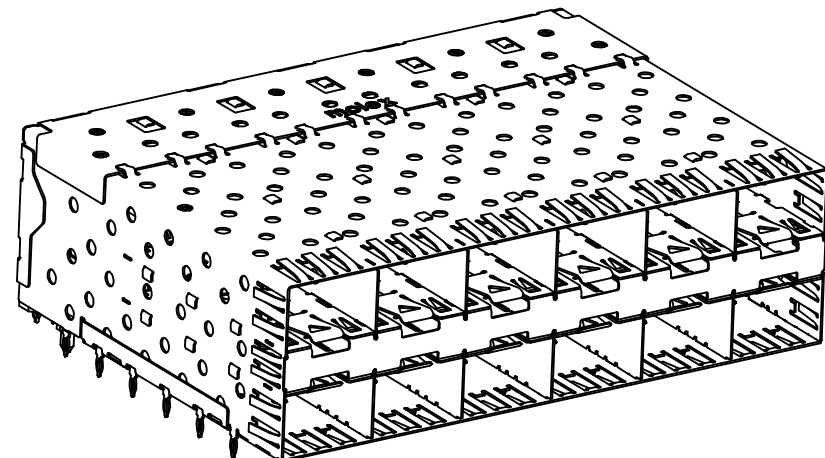
This document was generated on 05/28/2010

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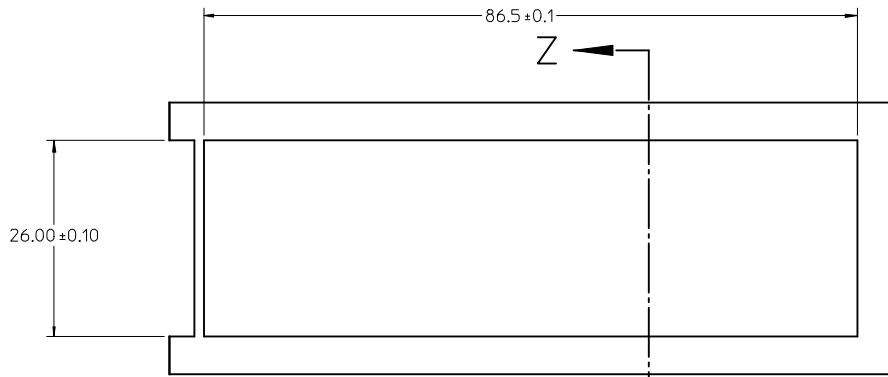
- NOTES:
- MATERIAL:  
CAGE: NICKEL SILVER, THICKNESS: 0.25mm  
CONNECTOR HOUSING: GLASS FILLED THERMOPLASTIC, UL: 94 V-0, COLOR: BLACK  
OVERMOLD TERMINAL HOUSING: GLASS FILLED THERMOPLASTIC, UL: 94 V-0, COLOR: BLACK  
TERMINALS: BRASS
  - FINISH  
TERMINALS: CONTACT AREA: 0.76 MICROMETERS MINIMUM HARD GOLD OVER 1.27 MICROMETERS MINIMUM NICKEL.  
COMPLIANT TAIL - TIN/LEAD OPTION: 0.76 - 1.52 MICROMETERS 90/10 TIN/LEAD OVER 0.76 - 1.52 MICROMETERS NICKEL  
COMPLIANT TAIL - TIN OPTION: 0.76 - 1.52 MICROMETERS TIN OVER 0.76 - 1.52 MICROMETERS NICKEL
  - REFER TO PS-75310-001 PRODUCT SPEC FOR ALL ELECTRICAL, MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS.
  - REFER TO PK-75451-001 FOR ALL PACKAGING SPECIFICATIONS.
  - THE CURVED TAILS THAT GO INTO THE HOLES LOCATED BY THESE DIMENSIONS ARE BEING ELIMINATED. TO ACCOMMODATE THIS CONVERSION, IT IS RECOMMENDED THAT BOARDS DESIGNED TO THIS PRINT REVISION INCLUDE THESE HOLES.
  - PART COMPLIES WITH COSMETIC SPECIFICATION PS-45499-002. SEE SHEET 4 SECTION Z-Z FOR SURFACE CLASSIFICATIONS. UNDERSIDE OF CAGE COMPLIES WITH CLASS "C".

|                                                                                                                                |                               |                                                      |  |                            |                    |                                                                                                                               |                        |                        |  |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------|--|----------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|--|
| ADD KEEP OUT ZONES<br>EC NO: UCP2010-0369<br>DRAWN: MSIBARRA 2009/07/09<br>CHKD: 2009/08/26<br>APPR: SMILLER 2009/08/27<br>REV | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>3:1                                                                                                                  | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |
|                                                                                                                                |                               |                                                      |  | DRAWN BY<br>JLONG          | DATE<br>02-04-2004 | TITLE<br>STACKED SFP 2X6 MEDIUM HEIGHT ASS'Y, PRESS-FIT TAIL WITHOUT LIGHT PIPES                                              |                        |                        |  |
|                                                                                                                                |                               |                                                      |  | CHECKED BY<br>KREGNIER     | DATE<br>02-27-2004 | MOLEX INCORPORATED                                                                                                            |                        |                        |  |
|                                                                                                                                |                               |                                                      |  | APPROVED BY<br>KREGNIER    | DATE<br>04-28-2004 | DOCUMENT NO.<br>SD-75477-001                                                                                                  |                        |                        |  |
|                                                                                                                                |                               | ANGULAR ± 5 °                                        |  | MATERIAL NO.               |                    | SEE TABLE                                                                                                                     |                        | SHEET NO.<br>1 OF 4    |  |
|                                                                                                                                |                               | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | SIZE<br>C                  |                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                        |  |

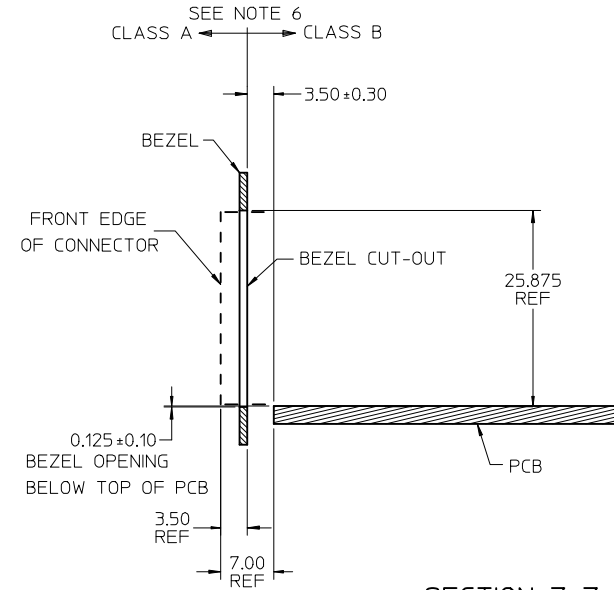


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|----------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------|--------------------|-------------------------------------------------------------------------------|------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2010-0369<br>FORMWNS IBARRA<br>2009/07/09<br>2009/08/126<br>CHKO:<br>APPR: SMILLER<br>2009/08/127 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |                                                                                                                               | DIMENSION STYLE<br>MM ONLY |             | SCALE<br>3:1       | DESIGN UNITS<br>METRIC                                                        | THIRD ANGLE PROJECTION |  |
|                                                                                                                            | =0<br>=0        |                                                            | mm                                                                                                                            | INCH                       | DRAWN BY    | DATE               | STACKED SFP 2X6 MEDIUM<br>HEIGHT ASS'Y, PRESS-FIT<br>TAIL WITHOUT LIGHT PIPES |                        |  |
|                                                                                                                            |                 | 4 PLACES                                                   | ± ---                                                                                                                         | ± ---                      | JLONG       | 02-04-2004         |                                                                               |                        |  |
|                                                                                                                            |                 | 3 PLACES                                                   | ± ---                                                                                                                         | ± ---                      | CHECKED BY  | DATE               |                                                                               |                        |  |
|                                                                                                                            |                 | 2 PLACES                                                   | ± 0.13                                                                                                                        | ± ---                      | KREGNIER    | 02-27-2004         |                                                                               |                        |  |
|                                                                                                                            |                 | 1 PLACE                                                    | ± 0.25                                                                                                                        | ± ---                      | APPROVED BY | DATE               |                                                                               |                        |  |
|                                                                                                                            |                 | ANGULAR ± 5 °                                              |                                                                                                                               | KREGNIER                   | 04-28-2004  | MOLEX INCORPORATED |                                                                               |                        |  |
|                                                                                                                            |                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                               | MATERIAL NO.               |             | DOCUMENT NO.       |                                                                               | SHEET NO.              |  |
|                                                                                                                            |                 |                                                            |                                                                                                                               | SEE TABLE                  |             | SD-75477-001       |                                                                               | 2 OF 4                 |  |
|                                                                                                                            |                 | SIZE                                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |             |                    |                                                                               |                        |  |





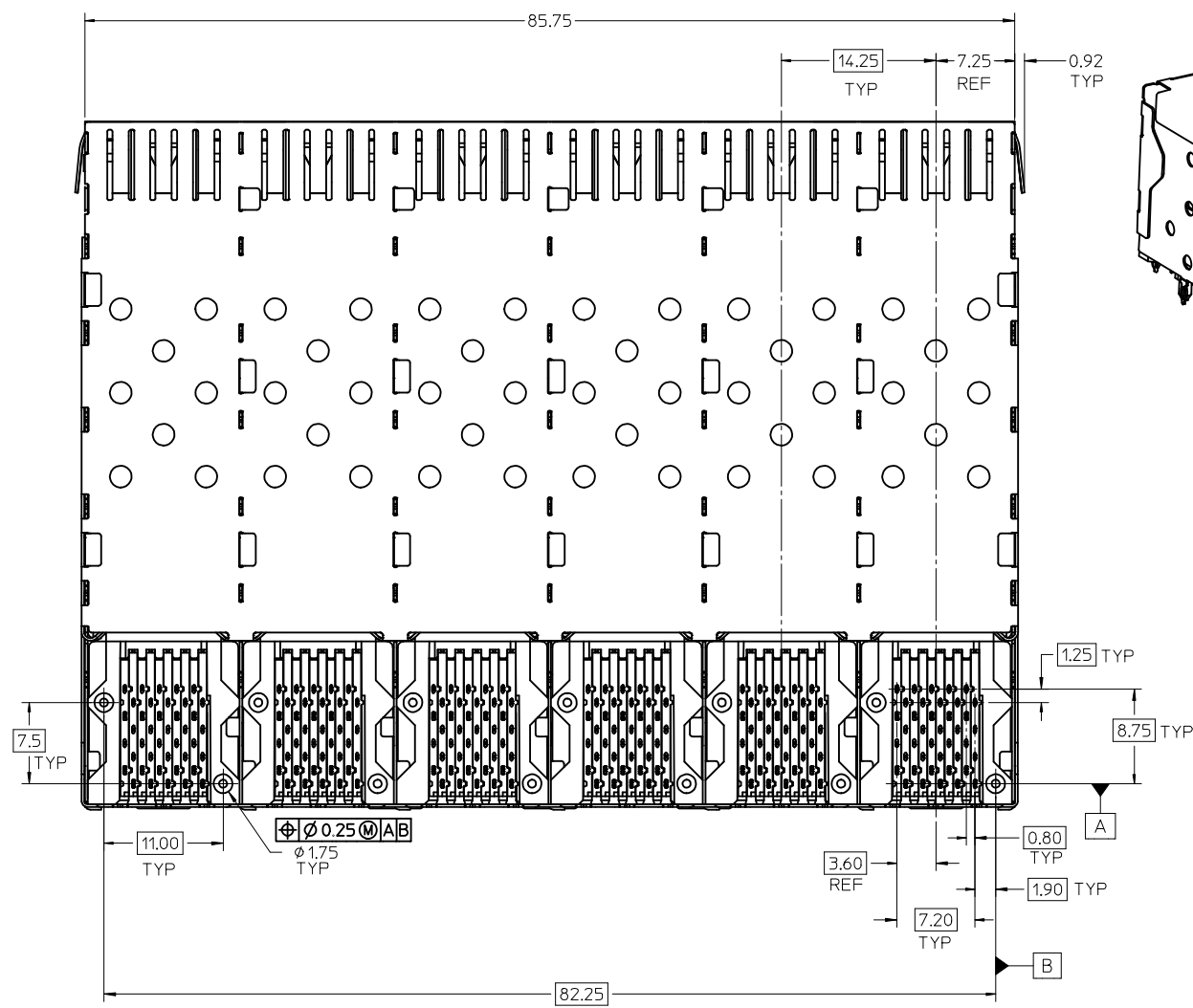
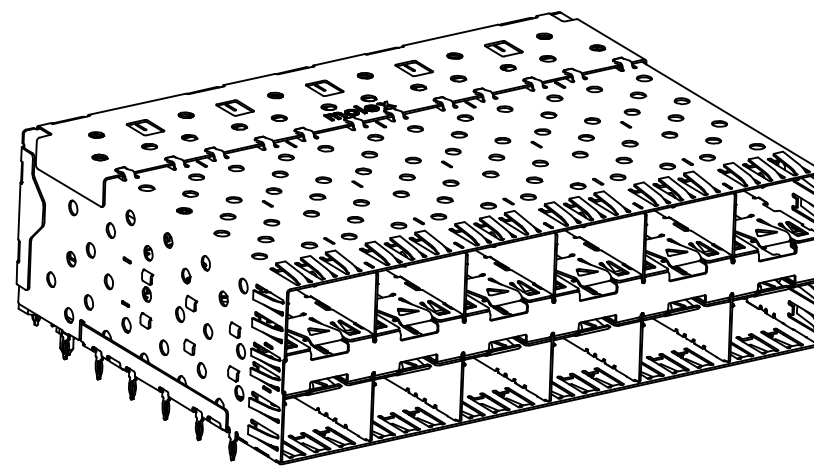
BEZEL CUT-OUT OPENING DETAIL  
BEZEL THICKNESS 0.8 - 2.6



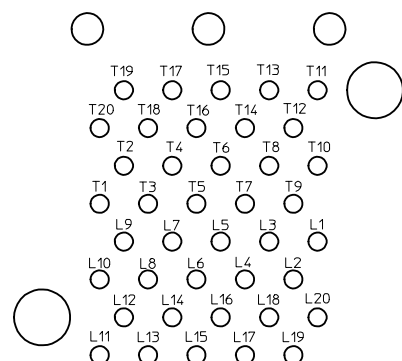
SECTION Z-Z

|                                                                                                                    |             |                               |                                                            |        |                            |                         |                                                                                                                                  |                        |                                                                                                              |                                                                                        |
|--------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------|------------------------------------------------------------|--------|----------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| SEE SHEET 1<br>EC NO: UCP2010-0369<br>2009/07/09<br>DRAWN:MSI BARRA<br>CHKD: 2009/08/26<br>APPR:SMILLER 2009/08/27 | DESCRIPTION | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM ONLY |                         | SCALE<br>2:1                                                                                                                     | DESIGN UNITS<br>METRIC |  THIRD ANGLE PROJECTION |                                                                                        |
|                                                                                                                    |             |                               |                                                            | mm     | INCH                       | DRAWN BY<br>JLONG       |                                                                                                                                  | DATE<br>02-04-2004     |                                                                                                              | TITLE<br>STACKED SFP 2X6 MEDIUM<br>HEIGHT ASS'Y, PRESS-FIT<br>TAIL WITHOUT LIGHT PIPES |
|                                                                                                                    |             |                               | 4 PLACES                                                   | ± ---  | ± ---                      | CHECKED BY<br>KREGNIER  |                                                                                                                                  | DATE<br>02-27-2004     |                                                                                                              |                                                                                        |
|                                                                                                                    |             |                               | 3 PLACES                                                   | ± ---  | ± ---                      | APPROVED BY<br>KREGNIER |                                                                                                                                  | DATE<br>04-28-2004     |                                                                                                              |                                                                                        |
|                                                                                                                    |             |                               | 2 PLACES                                                   | ± 0.13 | ± ---                      | MATERIAL NO.            |                                                                                                                                  | DOCUMENT NO.           |                                                                                                              |                                                                                        |
|                                                                                                                    |             |                               | 1 PLACE                                                    | ± 0.25 | ± ---                      | SEE TABLE               |                                                                                                                                  | SD-75477-001           |                                                                                                              |                                                                                        |
| REV                                                                                                                |             |                               | ANGULAR ± 5 °                                              |        |                            |                         |                                                                                                                                  |                        | SHEET NO.<br>4 OF 4                                                                                          |                                                                                        |
|                                                                                                                    |             |                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SIZE<br>C                  |                         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                                                              |                                                                                        |

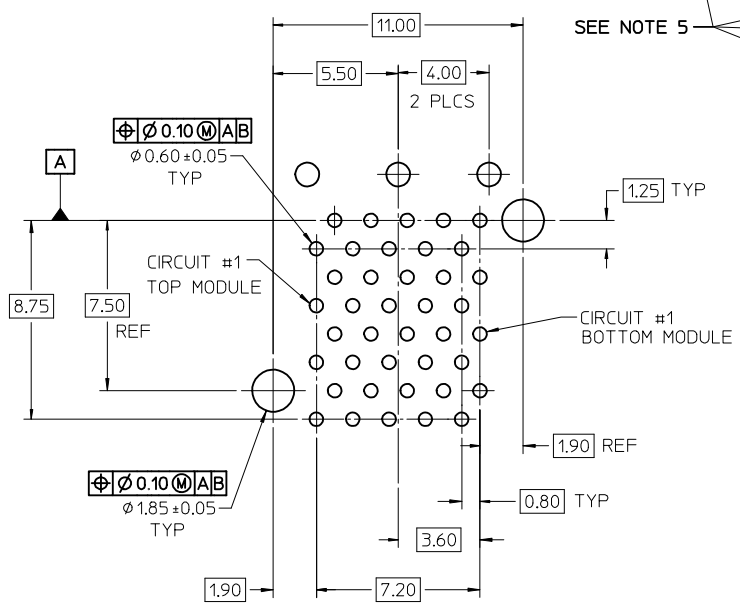
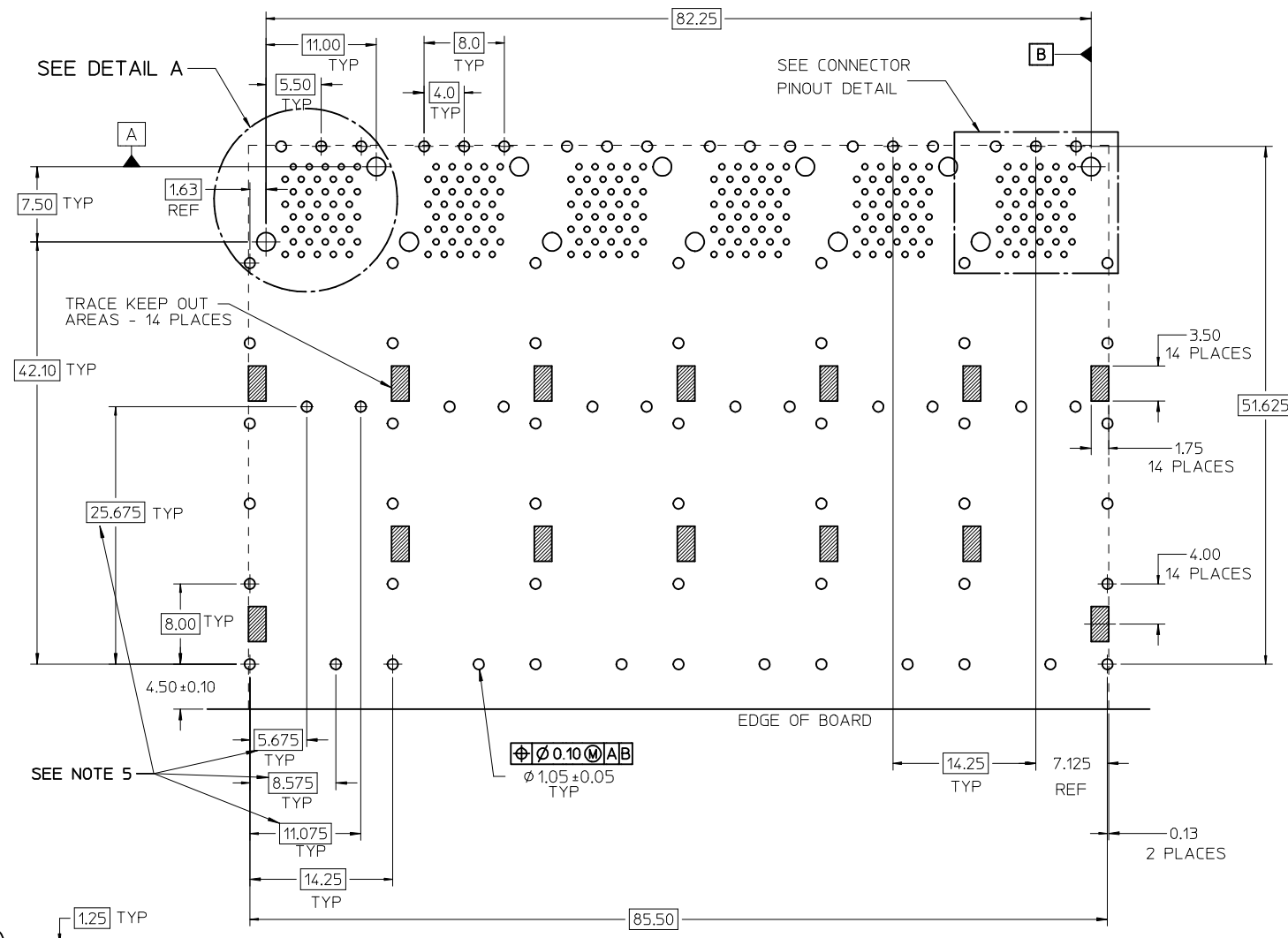




|                                                                                                                    |                                                                                                                               |                                   |                                       |                     |                            |                              |                                                                                     |                        |                           |  |  |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------|---------------------|----------------------------|------------------------------|-------------------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| SEE SHEET 1<br>EC NO: UCP2010-0369<br>2009/07/09<br>DRAWN:MSI BARRA<br>CHKD: 2009/08/26<br>APPR:SMILLER 2009/08/27 | DESCRIPTION                                                                                                                   | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |                     | DIMENSION STYLE<br>MM ONLY |                              | SCALE<br>3:1                                                                        | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                    |                                                                                                                               |                                   | mm                                    | INCH                | DRAWN BY                   | DATE                         | TITLE<br>STACKED SFP 2X6 MEDIUM<br>HEIGHT ASS'Y, PRESS-FIT<br>FOUNDRY SALES DRAWING |                        |                           |  |  |
|                                                                                                                    |                                                                                                                               |                                   | 4 PLACES ± --- ± ---                  | DROSCA              | 01-06-2005                 |                              |                                                                                     |                        |                           |  |  |
|                                                                                                                    |                                                                                                                               |                                   | 3 PLACES ± --- ± ---                  | CHECKED BY          | DATE                       | MOLEX MOLEX INCORPORATED     |                                                                                     |                        |                           |  |  |
|                                                                                                                    |                                                                                                                               |                                   | 2 PLACES ± 0.13 ± ---                 | JLONG               | 01-06-2005                 |                              |                                                                                     |                        |                           |  |  |
|                                                                                                                    |                                                                                                                               |                                   | 1 PLACE ± 0.25 ± ---                  | APPROVED BY         | DATE                       | DOCUMENT NO.<br>SD-75477-101 |                                                                                     |                        |                           |  |  |
|                                                                                                                    |                                                                                                                               |                                   | ANGULAR ± 5 °                         | RNELSON             | 02-15-2005                 |                              |                                                                                     |                        |                           |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                         |                                                                                                                               | MATERIAL NO.<br>754771001         |                                       | SHEET NO.<br>2 OF 4 |                            |                              |                                                                                     |                        |                           |  |  |
| SIZE                                                                                                               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                   |                                       |                     |                            |                              |                                                                                     |                        |                           |  |  |



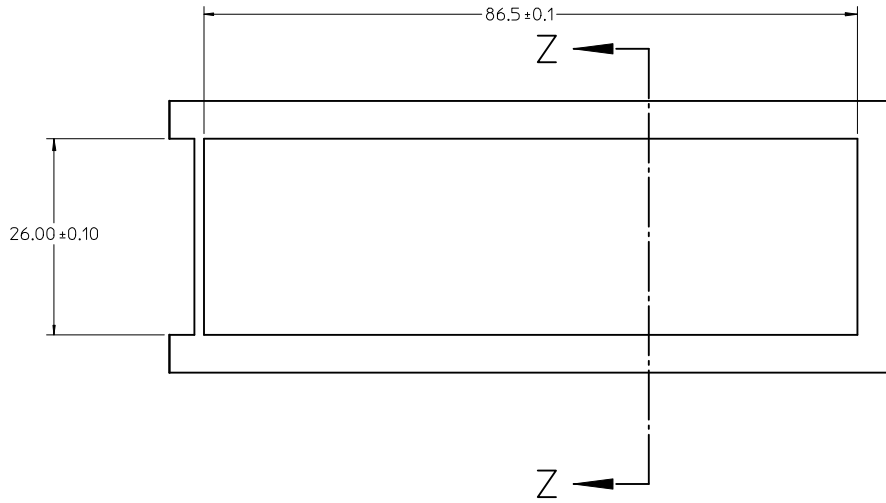
CONNECTOR PINOUT DETAIL  
COMPONENT SIDE OF BOARD



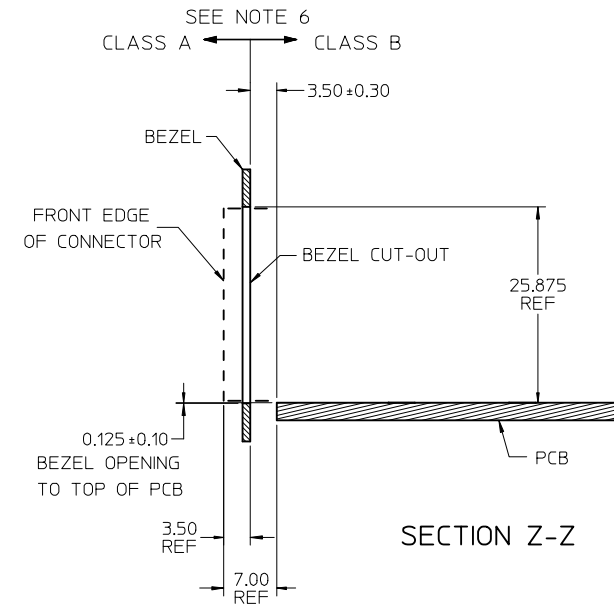
DETAIL A  
SCALE 6:1

RECOMMENDED PCB LAYOUT - COMPONENT SIDE  
RECOMMENDED PCB THICKNESS - 2.36 MM (.093 INCH)  
THE ENTIRE AREA OF THE CONNECTOR FOOTPRINT  
TO BE CONSIDERED THE KEEP OUT AREA FOR COMPONENTS  
THIS AREA IS INDICATED BY THE DASHED LINE

|                                                                                                                        |                                   |                        |                                       |        |                                                            |                           |                                                                                                                                  |                        |                                                                                                                                       |                     |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------|---------------------------------------|--------|------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| ADD KEEP OUT ZONES<br>EC NO: UCP2010-0369<br>DRAWN:MSI/BARRA 2009/07/09<br>CHKD: 2009/08/26<br>APPR:SMILLER 2009/08/27 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION<br><br>REV | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM ONLY                                 |                           | SCALE<br>3:1                                                                                                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION<br><br>STACKED SFP 2X6 MEDIUM<br>HEIGHT ASS'Y, PRESS-FIT<br>FOUNDRY SALES DRAWING<br><br>MOLEX INCORPORATED | SHEET NO.<br>3 OF 4 |
|                                                                                                                        |                                   |                        |                                       | mm     | INCH                                                       | DRAWN BY<br>DROSCA        | DATE<br>01-06-2005                                                                                                               | TITLE                  |                                                                                                                                       |                     |
|                                                                                                                        |                                   |                        | 4 PLACES                              | ± ---  | ± ---                                                      | CHECKED BY<br>JLONG       | DATE<br>01-06-2005                                                                                                               |                        |                                                                                                                                       |                     |
|                                                                                                                        |                                   |                        | 3 PLACES                              | ± ---  | ± ---                                                      | APPROVED BY<br>RNELSON    | DATE<br>02-15-2005                                                                                                               |                        |                                                                                                                                       |                     |
|                                                                                                                        |                                   |                        | 2 PLACES                              | ± 0.13 | ± ---                                                      | MATERIAL NO.<br>754771001 |                                                                                                                                  |                        |                                                                                                                                       |                     |
| 1 PLACE                                                                                                                | ± 0.25                            | ± ---                  | ANGULAR ± 5 °                         |        | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                           | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                                                                                       |                     |



BEZEL CUT-OUT CENTER DETAIL  
BEZEL THICKNESS 0.8 - 2.6



|                                                                                        |     |             |                                   |                                                                                                                    |         |                            |                    |                     |                        |                                                                                                                 |                                                                                         |                        |                    |                                                                                                          |                                                            |  |                                                                                                                                  |  |                              |  |                     |  |
|----------------------------------------------------------------------------------------|-----|-------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------|---------|----------------------------|--------------------|---------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------|--------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|--|---------------------|--|
| SEE SHEET 1<br>EC NO: UCP2010-0369<br>DRAWN BY: IBARRA<br>CHKD: MILLER<br>APPR: MILLER | REV | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                              |         | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>2:1        | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION | TITLE<br><br>STACKED SFP 2X6 MEDIUM<br>HEIGHT ASS'Y, PRESS-FIT<br>FOUNDRY SALES DRAWING |                        |                    |                                                                                                          |                                                            |  |                                                                                                                                  |  |                              |  |                     |  |
|                                                                                        |     |             |                                   | 4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.13 ± ---<br>1 PLACE ± 0.25 ± ---<br><br>ANGULAR ± 5 ° | mm INCH | DRAWN BY<br>DROSCA         | DATE<br>01-06-2005 | CHECKED BY<br>JLONG | DATE<br>01-06-2005     |                                                                                                                 |                                                                                         | APPROVED BY<br>RNELSON | DATE<br>02-15-2005 |  MOLEX INCORPORATED |                                                            |  |                                                                                                                                  |  |                              |  |                     |  |
|                                                                                        |     |             |                                   |                                                                                                                    |         |                            |                    |                     |                        |                                                                                                                 |                                                                                         |                        |                    |                                                                                                          | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | MATERIAL NO.<br>754771001                                                                                                        |  | DOCUMENT NO.<br>SD-75477-101 |  | SHEET NO.<br>4 OF 4 |  |
|                                                                                        |     |             |                                   |                                                                                                                    |         |                            |                    |                     |                        |                                                                                                                 |                                                                                         |                        |                    |                                                                                                          | SIZE<br>C                                                  |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                              |  |                     |  |
|                                                                                        |     |             |                                   |                                                                                                                    |         |                            |                    |                     |                        |                                                                                                                 |                                                                                         |                        |                    |                                                                                                          |                                                            |  |                                                                                                                                  |  |                              |  |                     |  |
|                                                                                        |     |             |                                   |                                                                                                                    |         |                            |                    |                     |                        |                                                                                                                 |                                                                                         |                        |                    |                                                                                                          |                                                            |  |                                                                                                                                  |  |                              |  |                     |  |