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Part Number: [0760945001](#)
Status: **Active**
Overview: [SFP+ Stacked Multi-Port Connectors](#)
Description: Small Form-factor Pluggable Plus (SFP+) Stacked 2-by-6 Multi-Port Connector with 4 Lightpipe Ports, Elastomeric Gasket, 240 Circuits, Tin (Sn) Tails

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Application Specification \(PDF\)](#)
[Test Summary \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

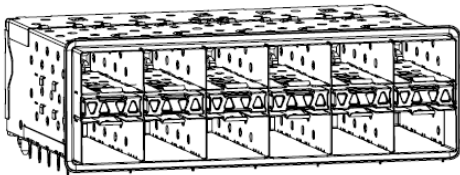
CSA LR19980
UL E29179

General

Product Family I/O Connectors
Series [76094](#)
Application Module-to-Board
Component Type Receptacle
Overview [SFP+ Stacked Multi-Port Connectors](#)
Product Name SFP Plus
Type N/A

Physical

Boot Color N/A
Circuits (Loaded) 240
Circuits (maximum) 240
Circuits Detail 240
Color - Resin Black, Clear (Blue Tint)
Durability (mating cycles max) 100
Flammability 94V-0
Gender Female
Keying to Mating Part None
Lock to Mating Part Yes
Material - Metal High Performance Alloy (HPA)
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic, Polycarbonate
Number of Rows 2
Orientation Right Angle
PC Tail Length (in) 0.081 In
PC Tail Length (mm) 2.07 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.57 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



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



**Need more information on product
environmental compliance?**

Email 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

[76094Series](#)

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 #

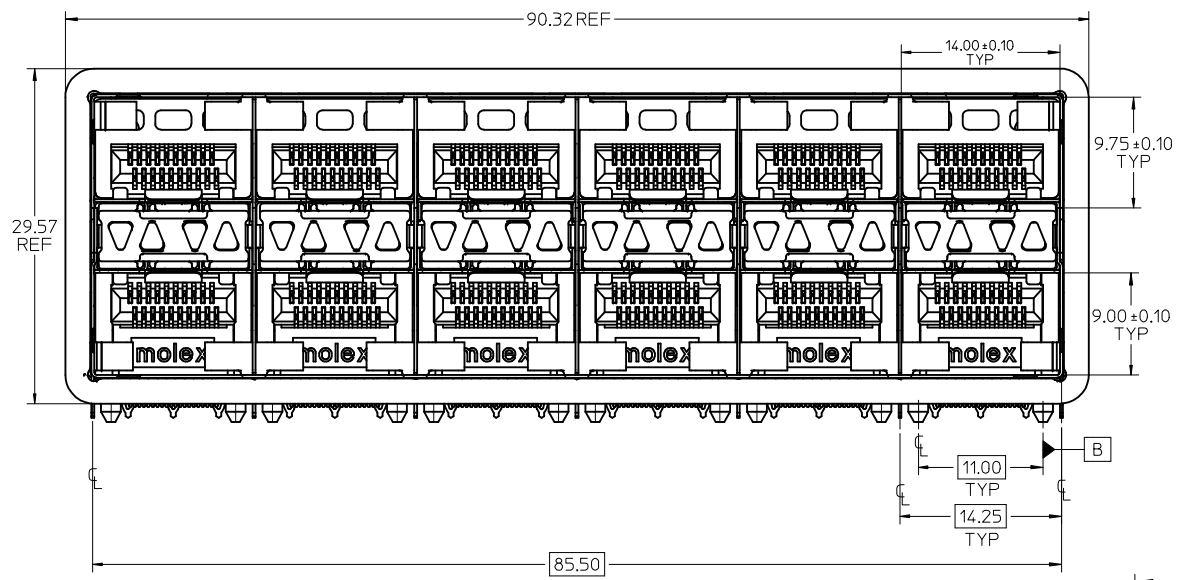
SFP Insertion Tool, [20622029925](#)
x 6
SFP Stacked Multi- [0622029950](#)
Port Extraction Tool,
2 by 6

Plating min: Termination (µm)	0.76
Polarized to Mating Part	Yes
Polarized to PCB	Yes
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
Grounding to Panel	None
Shield Type	EMI Gasket
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC
Material Info	
Reference - Drawing Numbers	
Sales Drawing	SD-76094-001

This document was generated on 05/14/2010

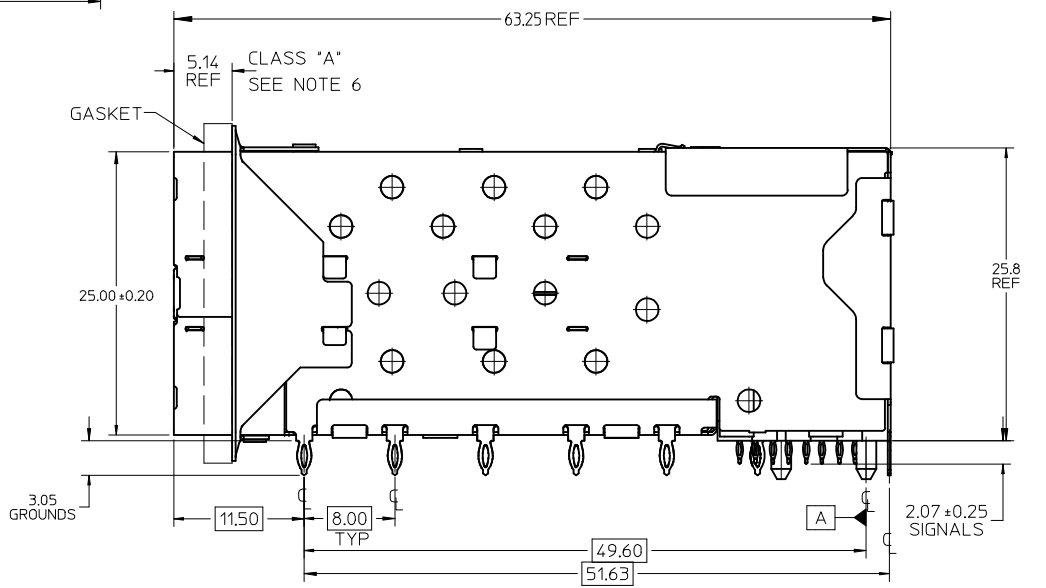
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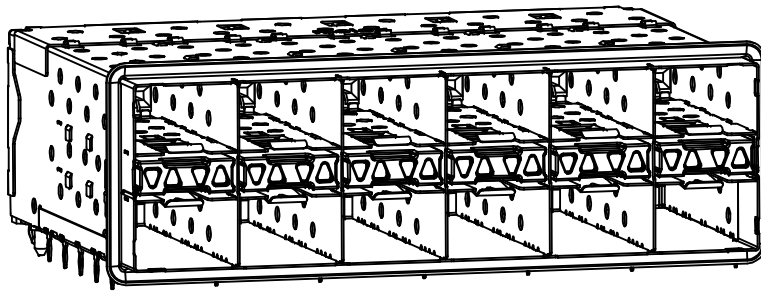


PART NUMBER	DESCRIPTION	VIEW	COMPLIANT TAIL PLATING
760940001	4 LIGHT PORTS	SEE PG 2	TIN / LEAD
760940002	INNER 2 PORTS	SEE PG 2	TIN / LEAD
760940003	OUTER 2 PORTS	SEE PG 2	TIN / LEAD
760945001	4 LIGHT PORTS	SEE PG 2	TIN
760945002	INNER 2 PORTS	SEE PG 2	TIN
760945003	OUTER 2 PORTS	SEE PG 2	TIN

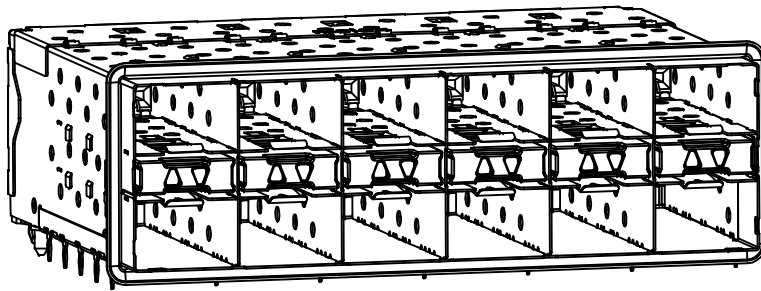
- NOTES:
- MATERIAL:
CAGE: NICKEL SILVER, THICKNESS: 0.25mm
GASKET FLANGE: STAINLESS STEEL
EMI GASKET: CONDUCTIVE POLYMER
CONNECTOR HOUSING: GLASS FILLED THERMOPLASTIC, UL: 94 V-0, COLOR: BLACK
OVERMOLD TERMINAL HOUSING: GLASS FILLED THERMOPLASTIC, UL: 94 V-0, COLOR: BLACK
TERMINALS: BRASS
LIGHT PIPE: POLYCARBONATE UL 94 V-0, COLOR CLEAR
LIGHT PIPE HOUSING: ZINC
 - 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
LIGHT PIPE HOUSING: 150 MICROMETERS NICKEL OVER 150 MICROMETERS COPPER
 - REFER TO PS-75310-001 PRODUCT SPEC FOR ALL ELECTRICAL, MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS.
 - LIGHT PIPE PAD LAYOUT IS FOR 0805 LOW-PROFILE LED PACKAGE FOR OTHER RECOMMENDED LAYOUTS REFER TO MOLEX'S REPORT TS-75310-001.
 - REFER TO PK-75451-001 FOR ALL PACKAGING SPECIFICATIONS.
 - ALL EXTERIOR SURFACES TO BE CLASS 'B' SURFACES EXCEPT THE UNDER SIDE OF THE CAGE WHERE THE PCB WOULD BE LOCATED AND AS NOTED. THE SURFACES TO CONFORM TO THE MOLEX COSMETIC DOC PS-45499-002.



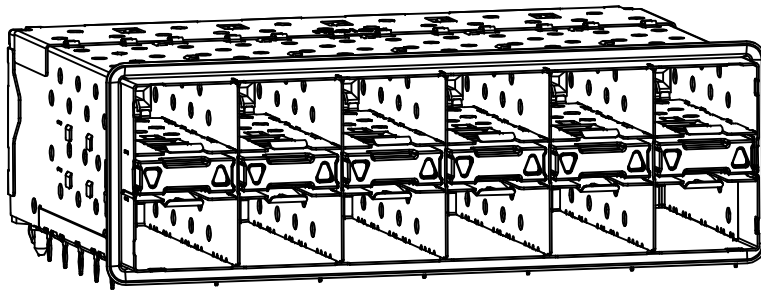
ADD KEEP OUT ZONES EC NO: UCP2009-2853 5/15/09 DRWN:MSIBARRA CHKD:BSMART APPR:SMILLER 2009/06/08 2009/06/08	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm INCH		DRAWN BY JLONG	DATE 01-18-2007	TITLE STACKED SFP+ 2X6 ASS'Y WITH ELASTOMERIC GASKET			
		4 PLACES ± --- ± ---		CHECKED BY MSANDBERG	DATE 01-18-2007	MOLEX MOLEX INCORPORATED			
		3 PLACES ± --- ± ---		APPROVED BY RNELSON	DATE 01-18-2007	DOCUMENT NO. SD-76094-001			
2 PLACES ± 0.13 ± ---		ANGULAR ± 5 °		MATERIAL NO. SEE TABLE		SHEET NO. 1 OF 4			
1 PLACE ± 0.25 ± ---		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



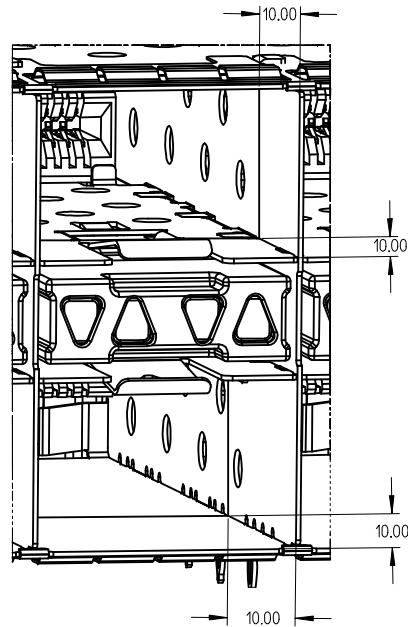
760940001 AND 760945001
WITH INNER AND OUTER LIGHT PIPES



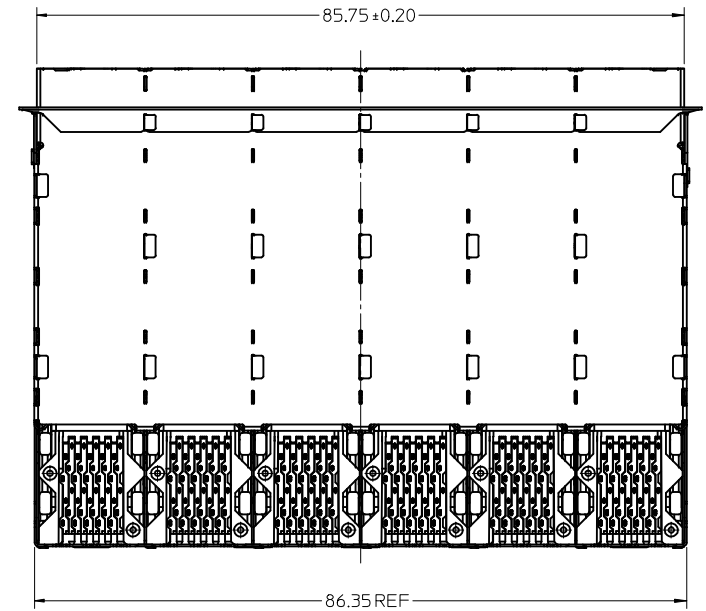
760940002 AND 760945002
WITH INNER LIGHT PIPES



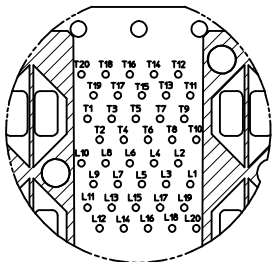
760940003 AND 760945003
WITH OUTER LIGHT PIPES



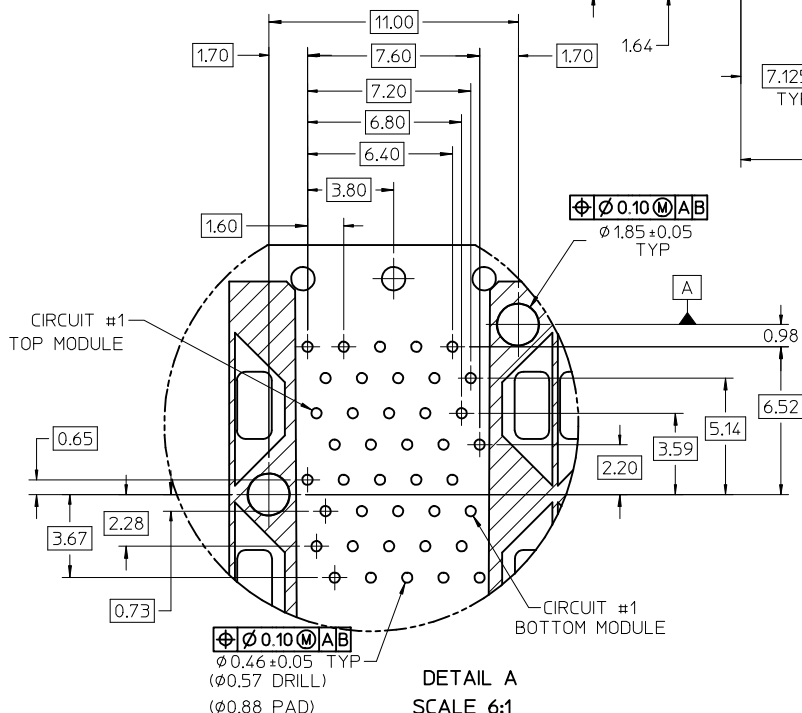
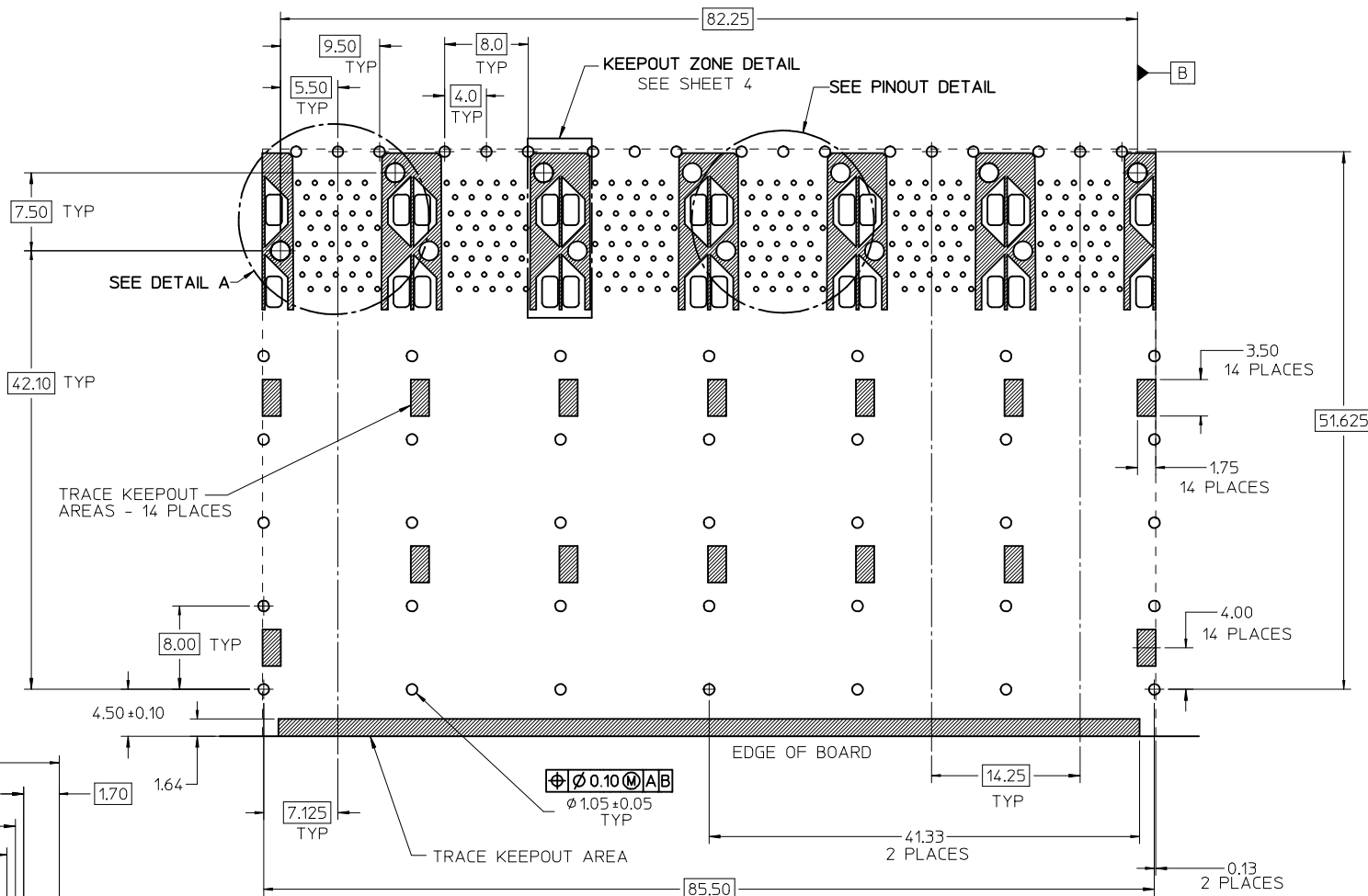
10.00MM AREA SETBACK IN CAGE IS TO BE FREE
OF ANY HOLES, DIMPLES, SEAMS OR ANY OTHER
FEATURE. (4 SIDES PER MODULAR PORT)



SEE SHEET 1 EC NO: UCP2009-2853 5/15/09 DRWN:MSBARRA 2009/06/08 CHKD:BSMART 2009/06/08 APPR:SMILLER	DESCRIPTION	REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	STACKED SFP+ 2X6 ASS'Y WITH ELASTOMERIC GASKET	
					mm	INCH	DRAWN BY JLONG		DATE 01-18-2007	TITLE		
				4 PLACES	± ---	± ---	CHECKED BY MSANDBERG		DATE 01-18-2007			
				3 PLACES	± ---	± ---	APPROVED BY RNELSON		DATE 01-18-2007	MOLEX MOLEX INCORPORATED		
				2 PLACES	± 0.13	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-76094-001			SHEET NO. 2 OF 4
				1 PLACE	± 0.25	± ---						
				ANGULAR ± 5 °								
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								



CONNECTOR PIN-OUT DETAIL
COMPONENT SIDE OF BOARD



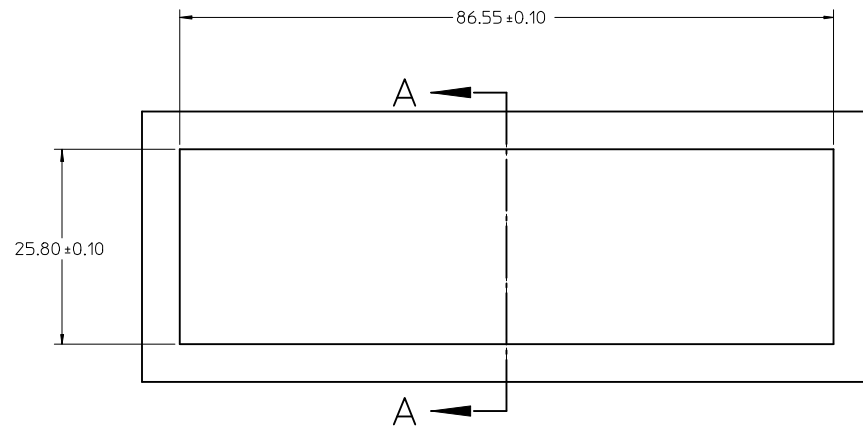
DETAIL A
SCALE 6:1

RECOMMENDED PCB LAYOUT - COMPONENT SIDE
RECOMMENDED PCB THICKNESS - 2.36 MM (.093 INCH)

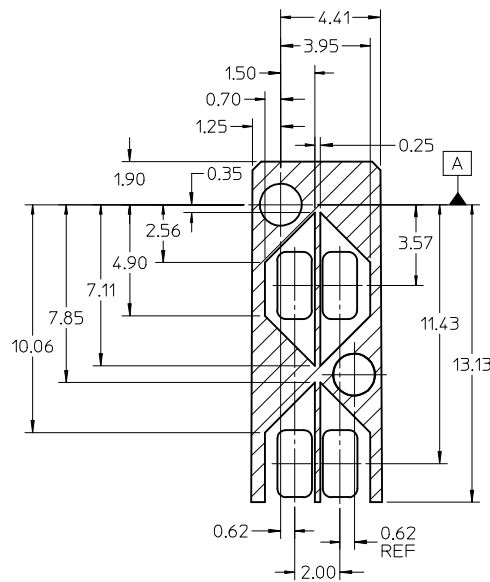
THE ENTIRE AREA OF THE CONNECTOR FOOTPRINT
TO BE CONSIDERED THE KEEP OUT AREA FOR COMPONENTS
(OTHER THAN LIGHT PIPE LED'S).
THIS AREA IS INDICATED BY THE DASHED LINE

ADD KEEP OUT ZONES EC NO: UCP2009-2853 DRWN:MS BARRA 5/15/09 CHKD:BSMART 2009/06/08 APPR:SMILLER 2009/06/08	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	STACKED SFP+ 2X6 ASS'Y WITH ELASTOMERIC GASKET				
		▽=0		mm	INCH	DRAWN BY JLONG	DATE 01-18-2007	MOLEX INCORPORATED						
		▽=0	4 PLACES ± ---	± ---	CHECKED BY MSANDBERG	DATE 01-18-2007								
			3 PLACES ± ---	± ---	APPROVED BY RNELSON	DATE 01-18-2007								
			2 PLACES ± 0.13	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-76094-001				SHEET NO. 3 OF 4			
			1 PLACE ± 0.25	± ---										
		ANGULAR ± 5 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

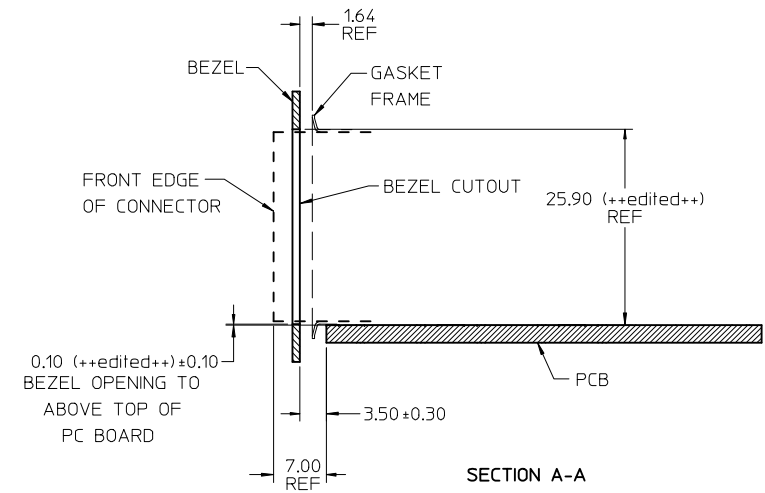
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BEZEL CUTOUT CENTER SPACING DETAIL
BEZEL THICKNESS 0.8 - 2.6



KEEPOUT ZONE DETAIL
SCALE 6:1



SEE SHEET 1 EC NO: UCP2009-2853 5/15/09 DRWN:SBARRA CHKD:SMART 2009/06/08 APPR:SMILLER 2009/06/08	REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm INCH	DRAWN BY JLONG		DATE 01-18-2007	TITLE STACKED SFP+ 2X6 ASS'Y WITH ELASTOMERIC GASKET		DOCUMENT NO. SD-76094-001
						CHECKED BY MSANDBERG		DATE 01-18-2007			
						APPROVED BY RNELSON		DATE 01-18-2007			
						MATERIAL NO.		SHEET NO. 4 OF 4			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE TABLE		MOLEX INCORPORATED		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			