

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0760915001

Status:

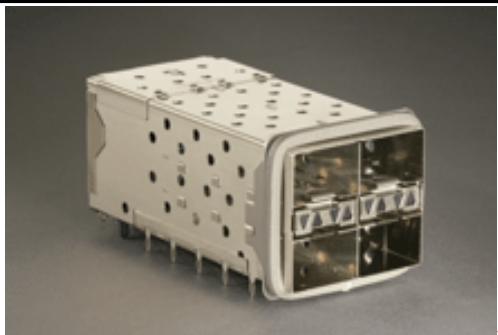
Active

Overview:

sfp_stacked_multiport_connectors

Description:

Small Form-factor Pluggable Plus (SFP+) Stacked 2-by-2 Multi-Port Connector with 4 Lightpipe Ports, Elastomeric Gasket, 80 Circuits, Tin (Sn) Tails



Series

image - Reference only

Documents:

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

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	I/O Connectors
Series	76091
Application	Module-to-Board
Component Type	Receptacle
Overview	sfp_stacked_multiport_connectors
Product Name	SFP Plus
Type	N/A

Physical

Boot Color	N/A
Circuits (Loaded)	80
Circuits (maximum)	80
Circuits Detail	80
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

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
76091Series

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.

Description	Product #
SFP Stacked Multi-Port Insertion Tool, 2 by 2	0622029970
SFP Stacked Multi-Port Extraction Tool, 2 by 2	0622029975

Plating min: Termination (µm)	0.76
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	4
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

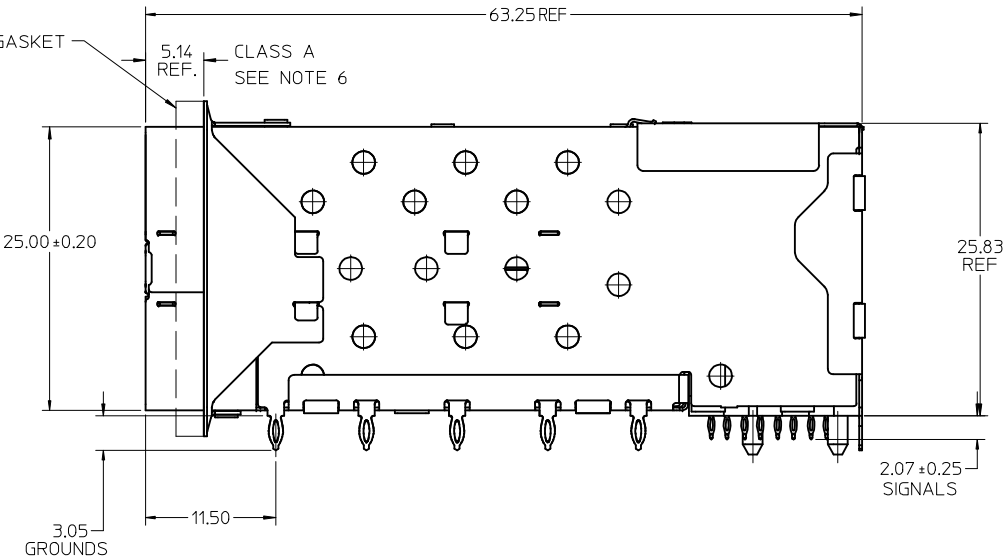
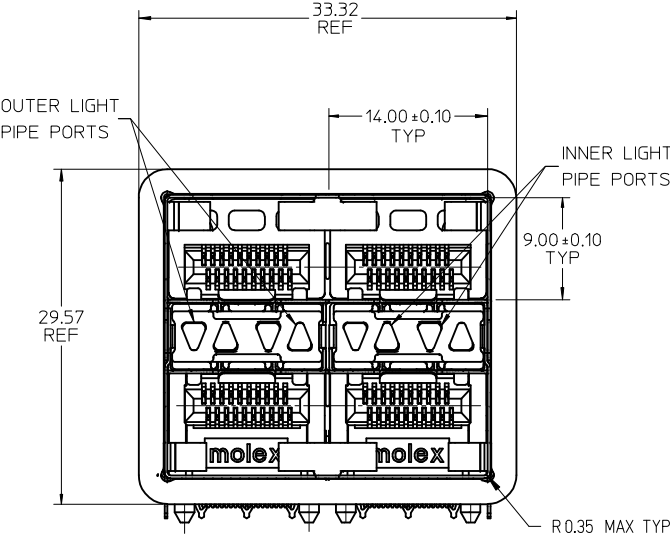
Reference - Drawing Numbers

Packaging Specification	PK-75714-001
Sales Drawing	SD-76091-001

This document was generated on 05/28/2010

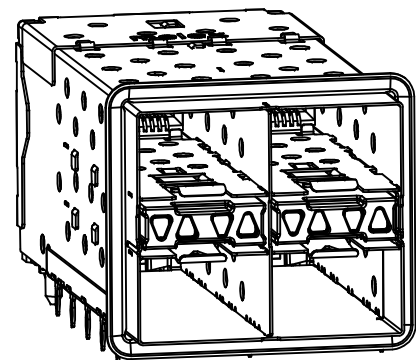
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PART NUMBER	DESCRIPTION	VIEW	COMPLIANT TAIL PLATING	CAGE PLATING
760910001	4 LIGHT PORTS	SEE PG 2	TIN / LEAD	N/A
760910002	INNER 2 PORTS	SEE PG 2	TIN / LEAD	N/A
760910003	OUTER 2 PORTS	SEE PG 2	TIN / LEAD	N/A
760915001	4 LIGHT PORTS	SEE PG 2	TIN	N/A
760915002	INNER 2 PORTS	SEE PG 2	TIN	N/A
760915003	OUTER 2 PORTS	SEE PG 2	TIN	N/A

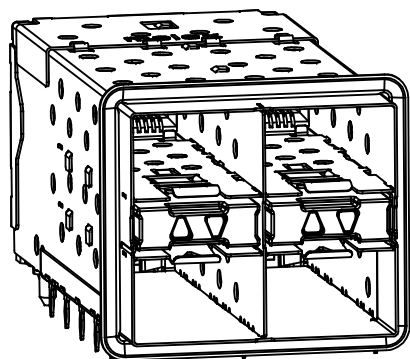


- NOTES
1. MATERIAL:
- CAGE: NICKEL SILVER, THICKNESS: 0.25mm
 - CAGE FLANGE: STAINLESS STEEL
 - EMI GASKET: CONDUCTIVE POLYMER
 - CONNECTOR HOUSING: GLASS FILLED HIGH TEMP PLASTIC, 94 V-0 COLOR BLACK
 - OVERMOLDED TERMINALS HOUSING: GLASS FILLED HIGH TEMP PLASTIC, 94 V-0, COLOR: BLACK
 - TERMINALS: TIN BRASS
 - LIGHT PIPES: POLYCARBONITE, 94 V-0, COLOR: CLEAR
 - LIGHT PIPE HOUSING: ZINC
2. FINISH:
- LIGHT PIPE HOUSING: 150 MICRONS NICKEL OVER 150 MICRONS COPPER
 - TERMINAL: CONTACT AREA: 0.76 MICRONS MIN, HARD GOLD OVER 1.27 MICRONS MIN. NICKEL.
 - COMPLIANT TAIL - TIN/LEAD OPTION: 0.76 - 152 MICRONS 90/10 TIN/LEAD OVER 0.76 - 152 MICRONS NICKEL
 - COMPLIANT TAIL - TIN OPTION: 0.76 - 152 MICRONS TIN OVER 0.76 - 152 MICRONS NICKEL
3. REFER TO PS-75310-001 PROTECT SPEC FOR ALL ELECTRICAL, MECHANICAL, AND ENVIRONMENTAL SPECIFICATIONS.
4. LIGHT PIPE PAD LAYOUT IS FOR 0805 LOW-PROFILE LED PACKAGE, FOR OTHER RECOMMENDED LAYOUTS REFER TO MOLEX'S REPORT TS-75310-001.
5. REFER TO PK-75714-001 FOR ALL PACKAGING SPECIFICATIONS.
6. ALL EXTERIOR SURFACES TO BE A CLASS "B" SURFACE 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.

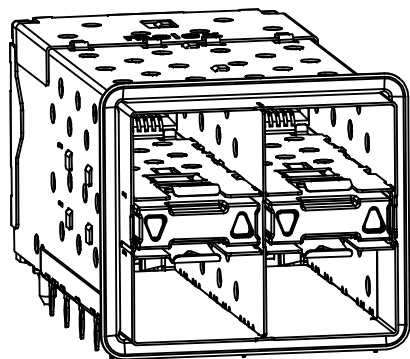
ADD KEEP-OUT ZONES EC NO: UCP2009-1356 DRAWN: S. BARRA 2009/08/04 CHKD: B. BARKER 2009/08/06 APPR: S. MILLER 2009/08/06	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY JJANTELEZIO	DATE 01-18-2007	TITLE STACKED SFP+ 2X2 ASSY WITH ELASTOMERIC GASKET AND LIGHTPIPES					
			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 CHART		DOCUMENT NO. SD-76091-001		SHEET NO. 1 OF 4			
			1 PLACE	± 0.25	± ---	SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			ANGULAR ± 5 °										
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										



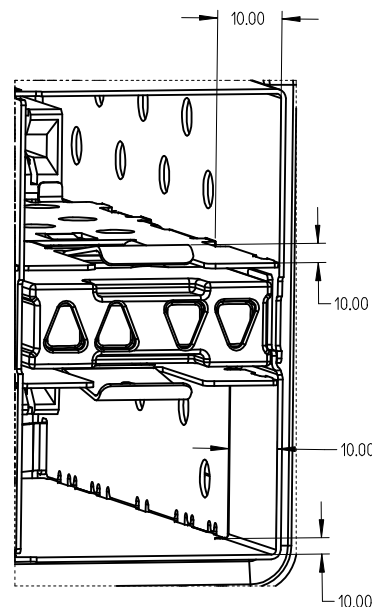
760910001 & 760915001
WITH INNER & OUTER LIGHT PIPE PORTS



760910002 & 760915002
WITH INNER LIGHT PIPE PORTS

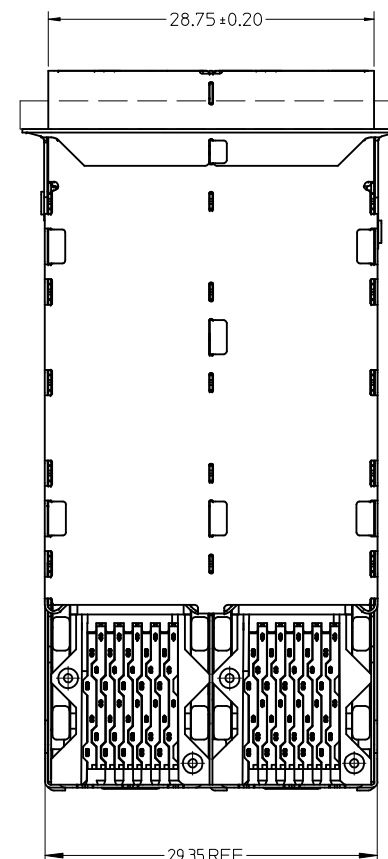


760910003 & 760915003
WITH OUTER LIGHT PIPE PORTS

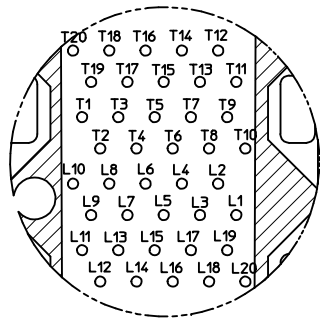


PORT DETAIL

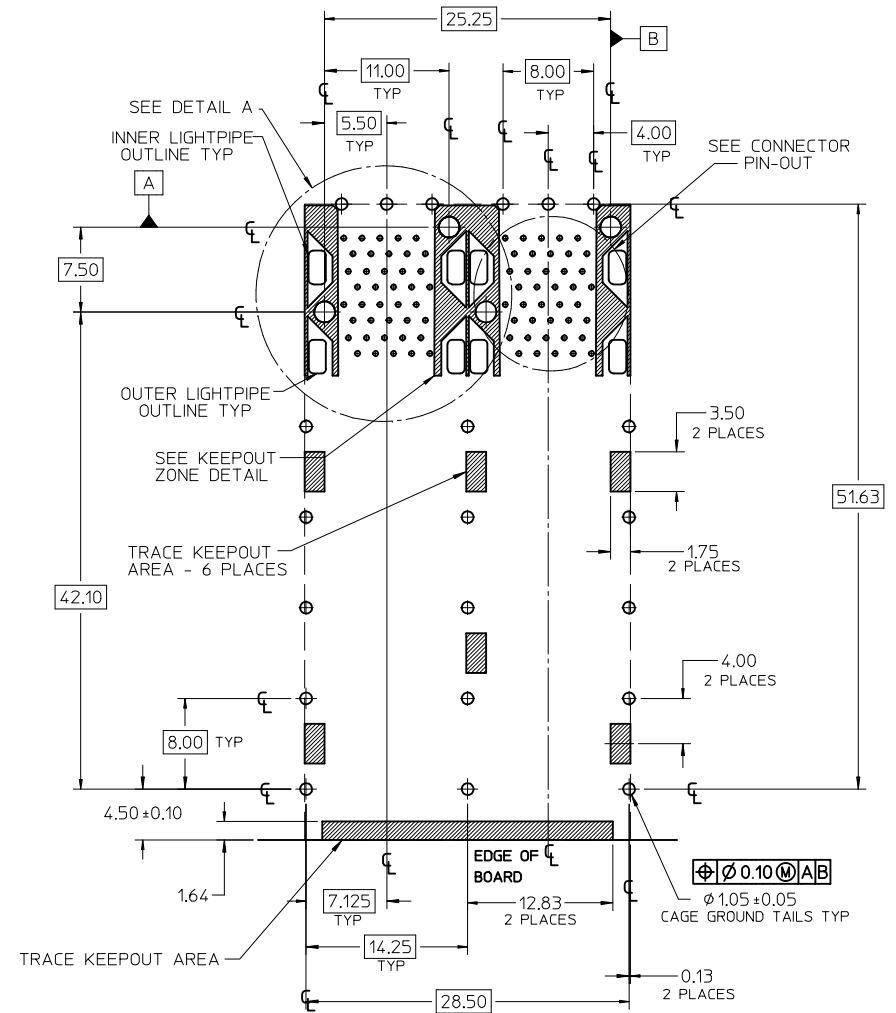
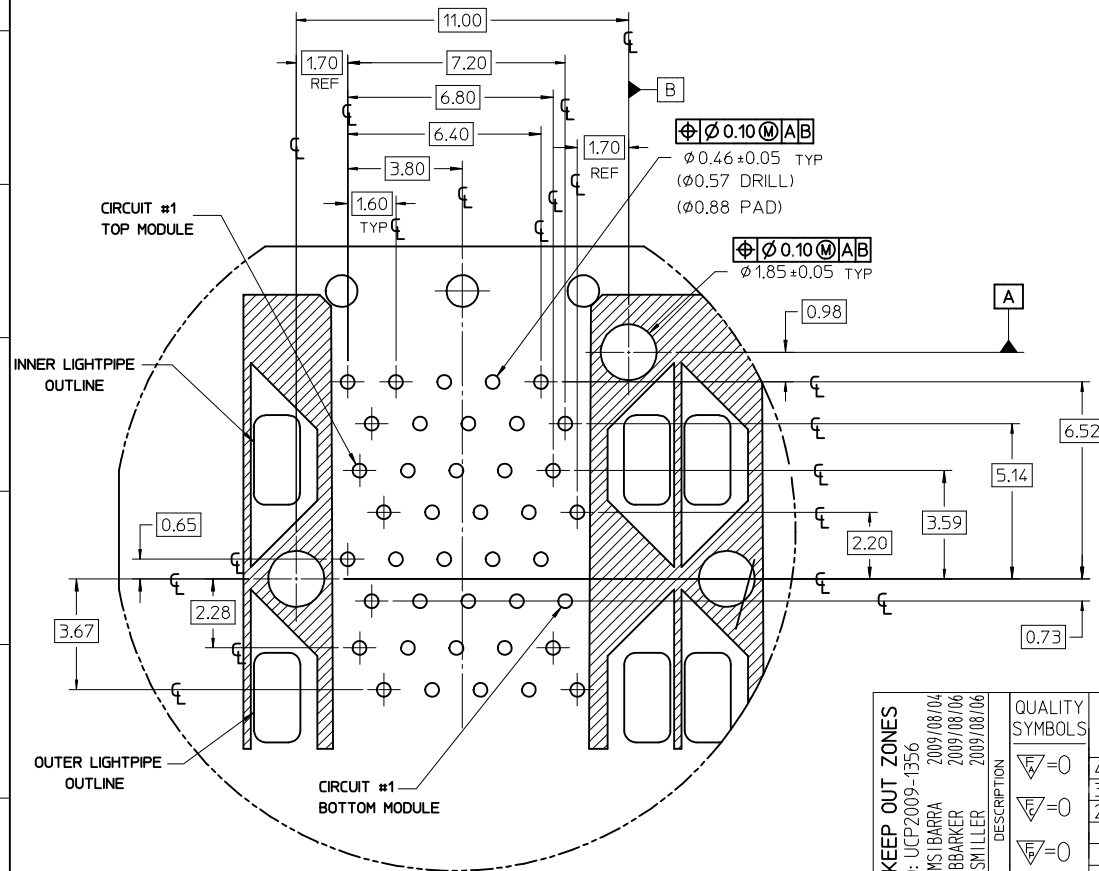
10.00mm AREA SETBACK IN CAGE IS TO BE FREE OF ANY HOLES, DIMPLES, SEAMS OR ANY OTHER FEATURE.
(4 SIDES PER PORT)



SEE SHEET 1	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
						MM ONLY		3:1	METRIC			
						DRAWN BY DATE		TITLE				
						JJANTELEZIO 01-18-2007		STACKED SFP+ 2X2 ASSY WITH ELASTOMERIC GASKET AND LIGHTPIPES				
						CHECKED BY DATE		MOLEX MOLEX INCORPORATED				
						MSANDBERG 01-18-2007						
		APPROVED BY DATE		DOCUMENT NO.		SHEET NO.						
		RNELSON 01-18-2007		SD-76091-001		2 OF 4						
		MATERIAL NO.		SEE CHART								
		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



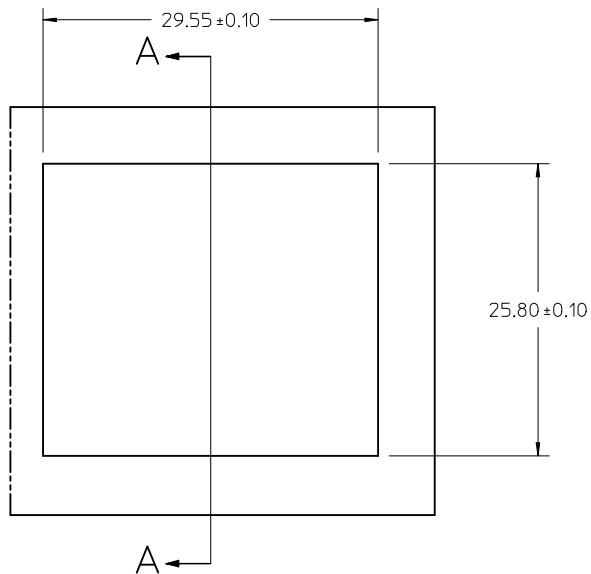
CONNECTOR PIN-OUT
COMPONENT SIDE OF BOARD



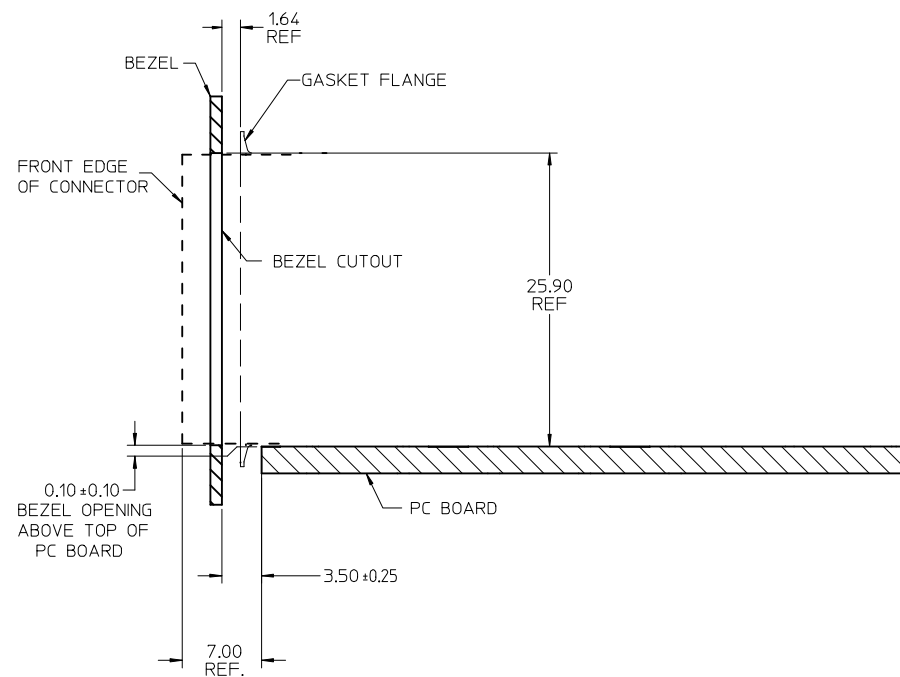
RECOMMENDED PCB LAYOUT - COMPONENT SIDE
RECOMMENDED PCB THICKNESS - 2.36 MM (.093 INCH)

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

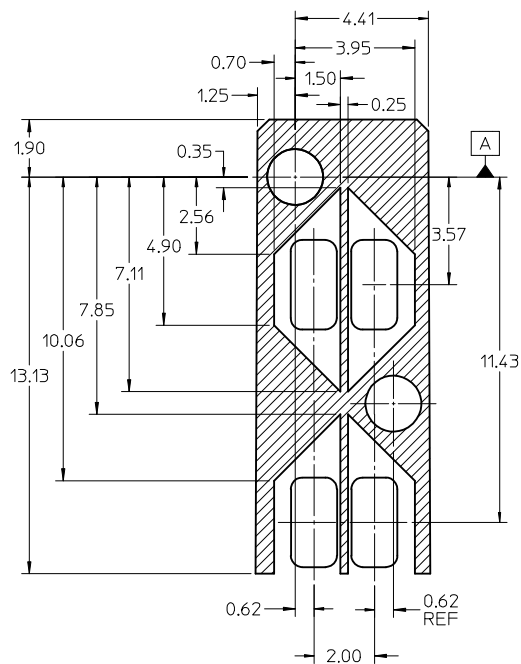
ADD KEEP OUT ZONES	EC NO: UCP2009-1356 DRWN:MSI BARRA 2009/08/04 CHKD:BBARKER 2009/08/06 APPR:SMILLER 2009/08/06	DESCRIPTION	REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
						mm	INCH	DRAWN BY	DATE	TITLE STACKED SFP+ 2X2 ASSY WITH ELASTOMERIC GASKET AND LIGHTPIPER				
					4 PLACES	± ---	± ---	JJANTELEZIO	01-18-2007					
					3 PLACES	± ---	± ---	CHECKED BY	DATE					
					2 PLACES	± 0.13	± ---	MSANDBERG	01-18-2007	MOLEX INCORPORATED				
					1 PLACE	± 0.25	± ---	APPROVED BY	DATE					
					ANGULAR ± 5 °			RNELSON	01-18-2007	SD-76091-001				
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.					DOCUMENT NO.	SHEET NO.
								SEE CHART					SD-76091-001	
								SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



BEZEL CUT-OUT CENTER SPACING DETAIL
BEZEL THICKNESS: 0.8 - 2.6



SECTION A-A



DETAIL - LIGHTPIPE LOCATION AND OTHER ZONES
SCALE 8:1

THE HATCHED AREA IN THIS VIEW INDICATES ZONES THAT ARE OCCUPIED BY THE PLASTIC HOUSING THAT SEATS AGAINST THE PCB AND BY THE VERTICAL METAL CAGE WALL THAT STOPS JUST SHORT OF THE PCB

SEE SHEET 1	EC NO: UCP2009-1356			DRAWN BY: DRWN:MSI BARRA 2009/08/04			DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE			SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
	CHKD:BBARKER 2009/08/06			APPR:SMILLER 2009/08/06					mm INCH			MM ONLY			3:1		METRIC			
	▽=0			4 PLACES ± --- ± ---					DRAWN BY DATE			TITLE		STACKED SFP+ 2X2 ASSY WITH ELASTOMERIC GASKET AND LIGHTPIPER						
	▽=0			3 PLACES ± --- ± ---					CHECKED BY DATE											
	▽=0			2 PLACES ± 0.13 ± ---					MSANDBERG 01-18-2007											
1 PLACE ± 0.25 ± ---			APPROVED BY DATE			MOLEX MOLEX INCORPORATED														
ANGULAR ± 5 °			RNELSON 01-18-2007			MATERIAL NO.		DOCUMENT NO.		SHEET NO.										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE CHART			SD-76091-001		4 OF 4												
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