

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0760445001

Status:

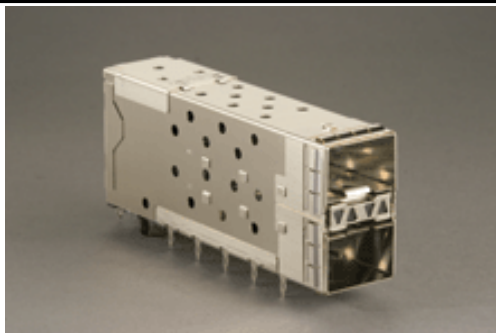
Active

Overview:

sfp_stacked_multiport_connectors

Description:

Small Form-factor Pluggable Plus (SFP+) Stacked 2-by-1 Multi-Port Connector with 4 Lightpipe Ports, EMI Metal Gasket, 40 Circuits, Tin (Sn) Tails



Series

image - Reference only

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Application Specification \(PDF\)](#)
- [Product Specification PS-75310-001 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	I/O Connectors
Series	76044
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)	40
Circuits (maximum)	40
Circuits Detail	40
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	Brass, Phosphor Bronze
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
Halogen-Free

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
76044Series

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	Product #
Description	
SFP Insertion Tool,	20622029910
x 1 Medium	
SFP Extraction Tool,	0622029930
2 x 1 Medium	

Plating min: Termination (μm)	0.76
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	2
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

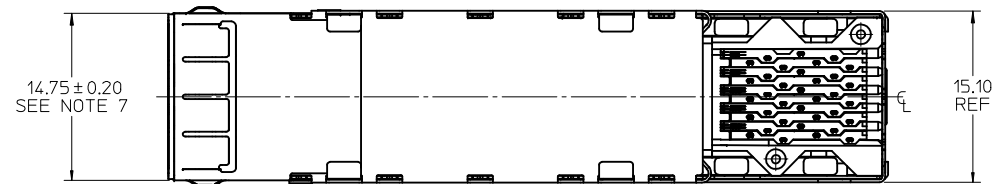
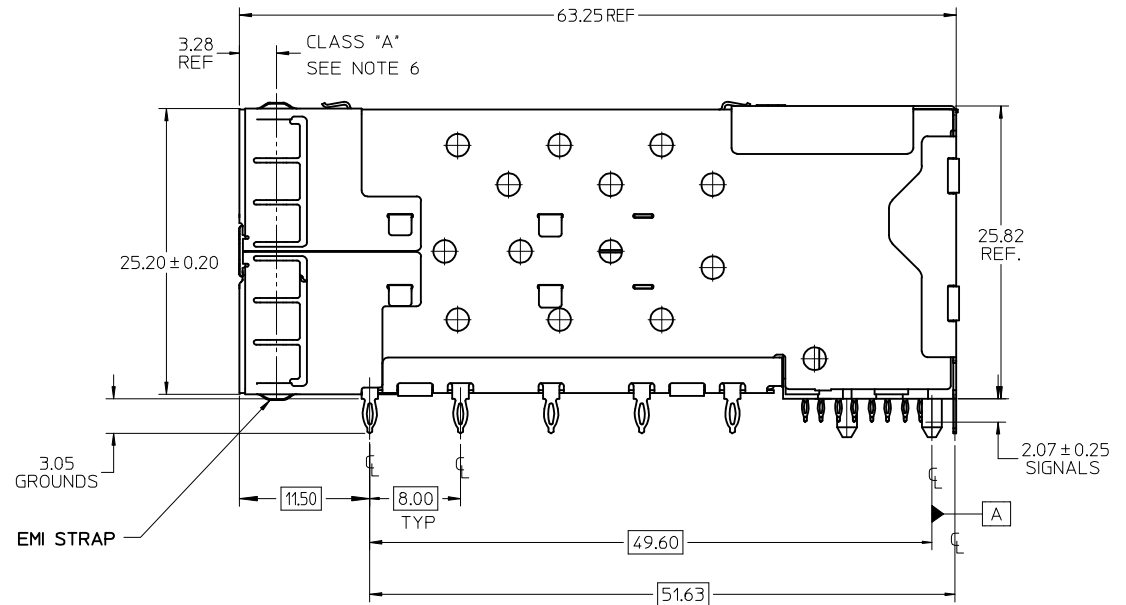
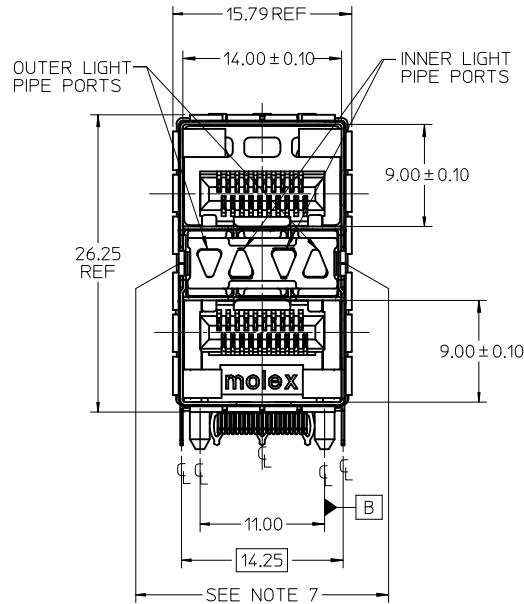
Reference - Drawing Numbers

Application Specification	AS-75310-001
Packaging Specification	PK-75462-001
Product Specification	PS-75310-001
Sales Drawing	SD-76044-001
Test Summary	TS-75310-001

This document was generated on 05/27/2010

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PART NUMBER	DESCRIPTION	VIEW	COMPLIANT TAIL PLATING
760440001	4 LIGHT PORTS	SEE PG 2	TIN / LEAD
760440002	INNER 2 PORTS	SEE PG 2	TIN / LEAD
760440003	OUTER 2 PORTS	SEE PG 2	TIN / LEAD
760445001	4 LIGHT PORTS	SEE PG 2	TIN
760445002	INNER 2 PORTS	SEE PG 2	TIN
760445003	OUTER 2 PORTS	SEE PG 2	TIN



NOTES

1. MATERIAL:

EMI STRAPS: PHOS-BRONZE
CAGE: NICKEL SILVER, THICKNESS: 0.25mm
CONNECTOR HOUSING: GLASS FILLED HIGH TEMP PLASTIC,
COLOR: BLACK
OVERMOLDED TERMINAL HOUSING: GLASS FILLED HIGH TEMP PLASTIC,
COLOR: BLACK
TERMINALS: BRASS
LIGHT PIPES: POLYCARBONITE, 94 V-0, CLEAR
LIGHT PIPE HOUSING: ZINC

2. FINISH

EMI STRAPS: 100 MICROINCHES NICKEL OVERALL
LIGHT PIPE HOUSING: 150 MICRONS NICKEL OVER 150 MICRONS COPPER
TERMINALS: 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

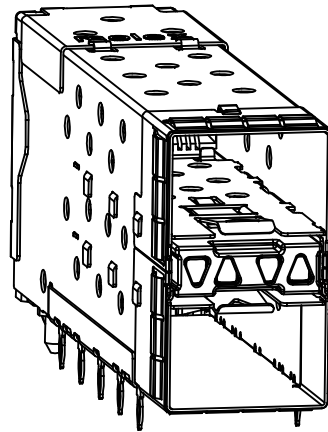
3. REFER TO PS-75310-001 PRODUCT SPEC FOR ALL ELECTRICAL, MECHANICAL, AND ENVIRONMENTAL SPECIFICATIONS.

4. LIGHT PIPE PAD LAYOUT IS FOR 0805 LOW-PROFILE LED PACKAGE, FOR OTHER RECOMMENDED LAYOUTS REFER TO MOLEX'S REPORT TS-75310-001.

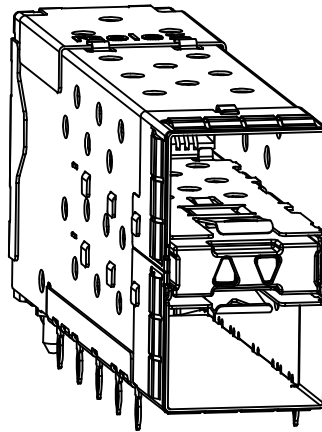
5. REFER TO PK-75462-001 FOR ALL PACKAGING SPECIFICATIONS.

6. ALL EXTERIOR SURFACES TO BE 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. 7. THE OVERALL CAGE WIDTH AT THE VERTICAL CENTER OF THE FRONT EDGE WILL FALL WITHIN THIS DIMENSION: 15.05+/-0.30 MM. THIS PORTION OF THE CAGE WILL FLEX INWARD AS THE CAGE IS BEING INSERTED INTO THE BEZEL OPENING.

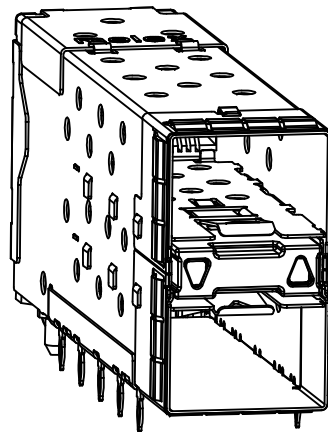
ADD NOTE 7/KEEPOUT'S EC NO: UCP2009-1582 DRWN:MS IBARRA 2009/01/07 CHKD:BBARKER 2009/01/09 APPR:SMILLER 2009/01/12	DESCRIPTION	REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					mm	INCH	DRAWN BY JJANTELEZ10	DATE 11-3-06	TITLE STACKED SFP+ 2X1 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES				
				4 PLACES	± ---	± ---	CHECKED BY JLONG	DATE 2-1-2007					
				3 PLACES	± ---	± ---	APPROVED BY KREGNIER	DATE 2-1-2007					
				2 PLACES	± 0.13	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-76044-001		SHEET NO. 1 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							



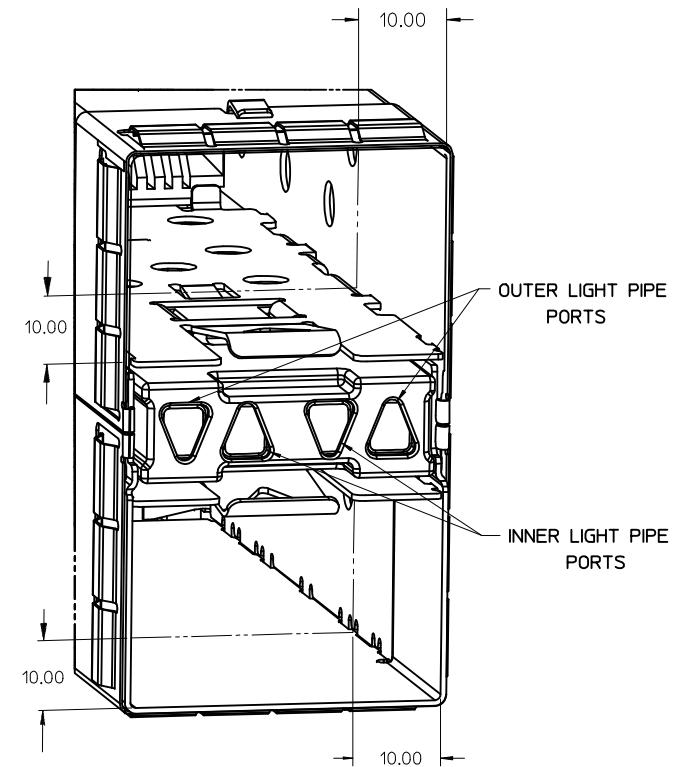
760440001 AND 760445001
WITH INNER AND OUTER LIGHT PIPES



760440002 AND 760445002
WITH INNER LIGHT PIPES

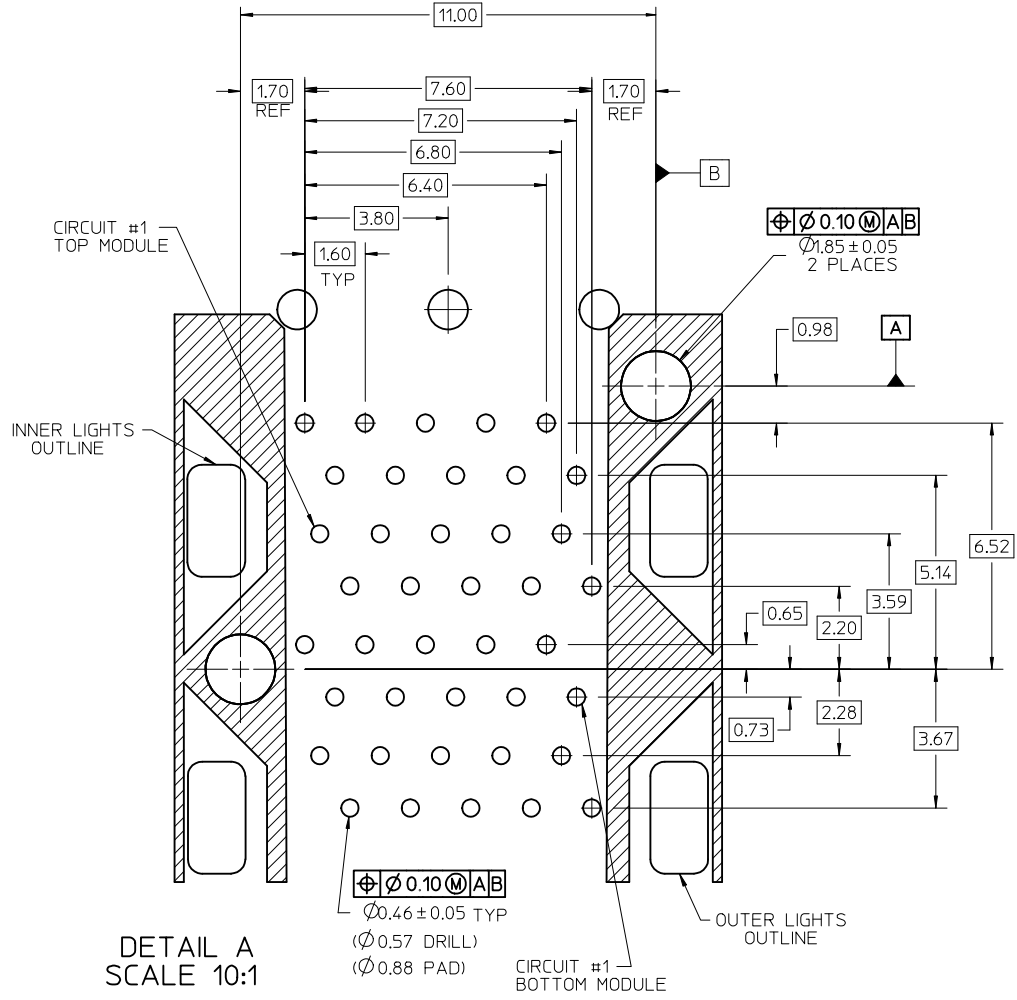


760440003 AND 760445003
WITH OUTER LIGHT PIPES

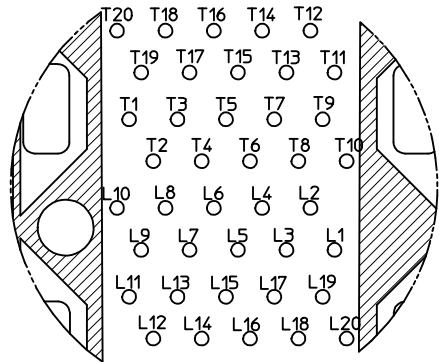


MODULE PORT DETAIL
10.00MM AREA SETBACK IN CAGE IS TO BE FREE OF ANY
HOLES, DIMPLES, SEAMS OR ANY OTHER FEATURES.
(4 SIDES PER MODULE PORT)

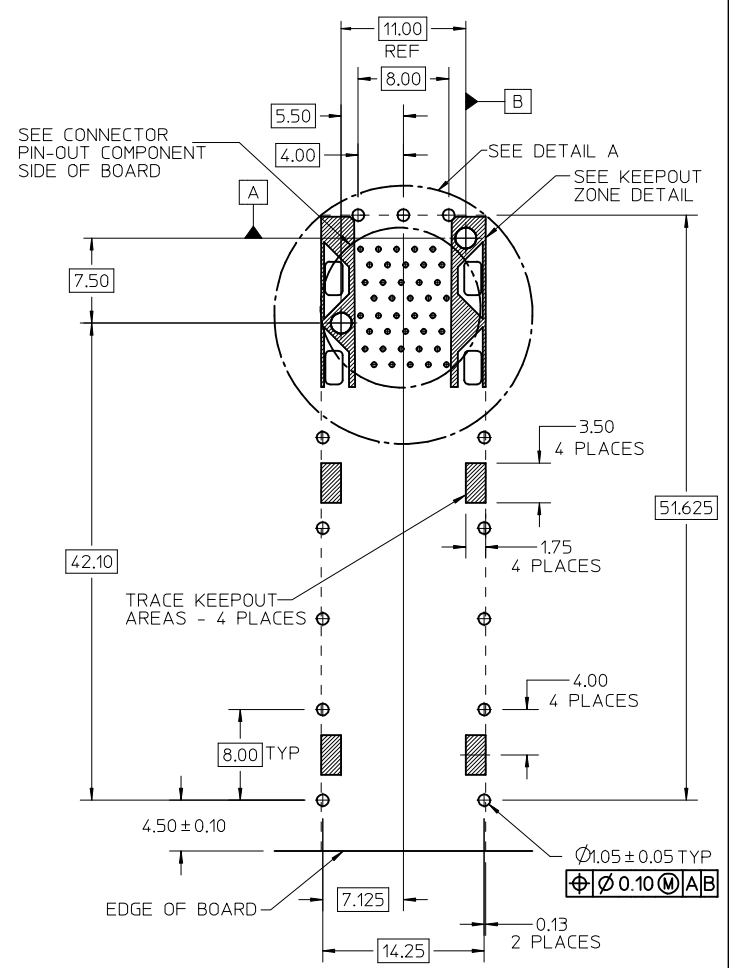
SEE SHEET 1 EC NO: UCP2009-1582 DRWN:MSI BARRA 2009/01/07 CHKD:BBARKER 2009/01/09 APPR:SMILLER 2009/01/12	REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE STACKED SFP+ 2X1 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES MOLEX INCORPORATED		
					mm	INCH	DRAWN BY JJANTELEZIO	DATE 11-3-06	DOCUMENT NO. SD-76044-001			SHEET NO. 2 OF 4	
				4 PLACES	± ---	± ---	CHECKED BY JLONG	DATE 2-1-2007					
				3 PLACES	± ---	± ---	APPROVED BY KREGNIER	DATE 2-1-2007					
				2 PLACES	± 0.13	± ---	MATERIAL NO.						
				1 PLACE	± 0.25	± ---	SEE TABLE						
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					



DETAIL A
SCALE 10:1

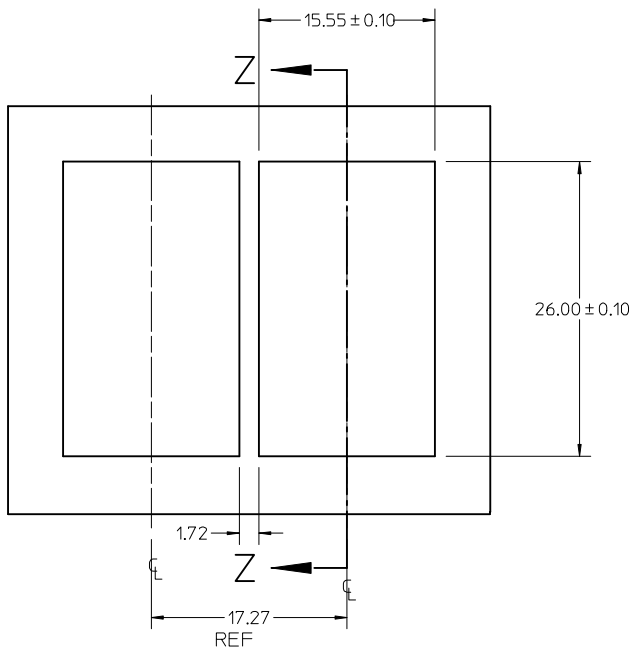


CONNECTOR PIN-OUT
COMPONENT SIDE OF BOARD
SCALE 10:1

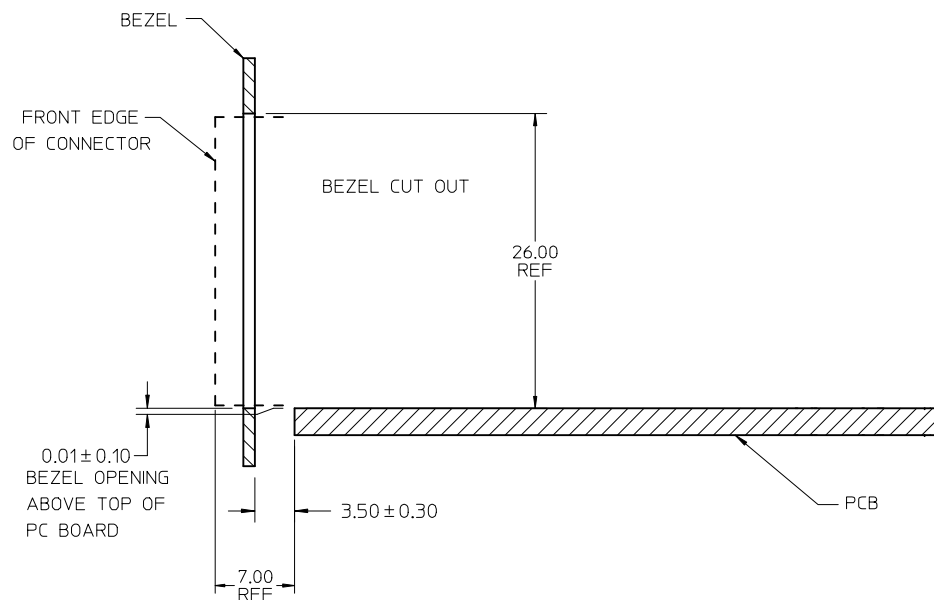


RECOMMENDED PCB LAYOUT - COMPONENT SIDE
RECOMMENDED PCB THICKNESS - 2.36 MM (.093 INCH)
THE ENTIRE AREA OF THE CONNECTOR FOOTPRINT
TO BE CONSIDERED THE KEEPOUT AREA FOR COMPONENTS
(OTHER THAN LIGHT PIPE LED'S).
THIS AREA IS INDICATED BY THE DASHED LINE

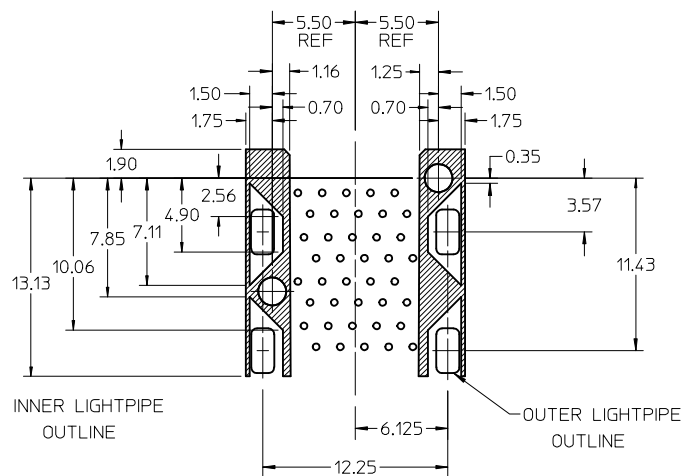
ADD KEEPOUT ZONES EC NO: UCP2009-1582 DRWN:MS IBARRA 2009/01/07 CHKD:BBARKER 2009/01/09 APPR:SMILLER 2009/01/12	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY JJANTELEZIO	DATE 11-3-06	TITLE STACKED SFP+ 2X1 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES	
			4 PLACES	±---	±---	CHECKED BY JLONG	DATE 2-1-2007		
			3 PLACES	±---	±---	APPROVED BY KREGNIER	DATE 2-1-2007		
			2 PLACES	±0.13	±---	MATERIAL NO.	DOCUMENT NO.		
1 PLACE	±0.25	±---	ANGULAR ± 5 °		SEE TABLE		SD-76044-001		SHEET NO. 3 OF 4
REV			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			



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



SECTION Z-Z



DETAIL - LIGHT PIPE 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: UCP2009-1582 DRAWN BY: DRWN:MS BARA CHKD:BBARKER APPR:SMILLER REV: 1	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY JJANTELEZ10	DATE 11-3-06	STACKED SFP+ 2X1 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPS		
				4 PLACES	± ---	± ---	CHECKED BY JLONG	DATE 2-1-2007			
				3 PLACES	± ---	± ---	APPROVED BY KREGNIER	DATE 2-1-2007			
				2 PLACES	± 0.13	± ---	MOLEX MOLEX INCORPORATED				
				1 PLACE	± 0.25	± ---			DOCUMENT NO. SD-76044-001		
				ANGULAR ± 5 °		MATERIAL NO. SEE TABLE		SHEET NO. 4 OF 4			
				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			