

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0760440002

Status:

Active

Overview:

sfp_stacked_multiport_connectors

Description:

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

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-Lead

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

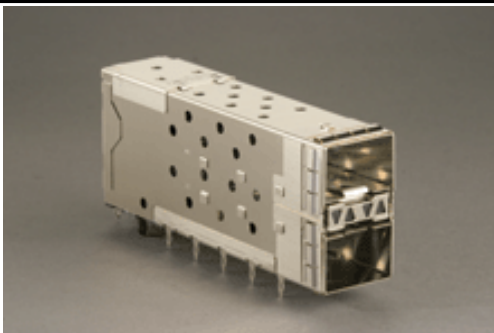


image - Reference onlySeries

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Not Reviewed

Halogen-Free

Status

Halogen-Free

China RoHS

50

Pb

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

Description

Product #

SFP Insertion Tool, 20622029910

x 1 Medium

SFP Extraction Tool, 0622029930

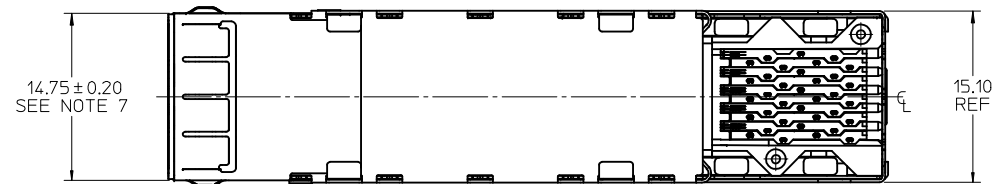
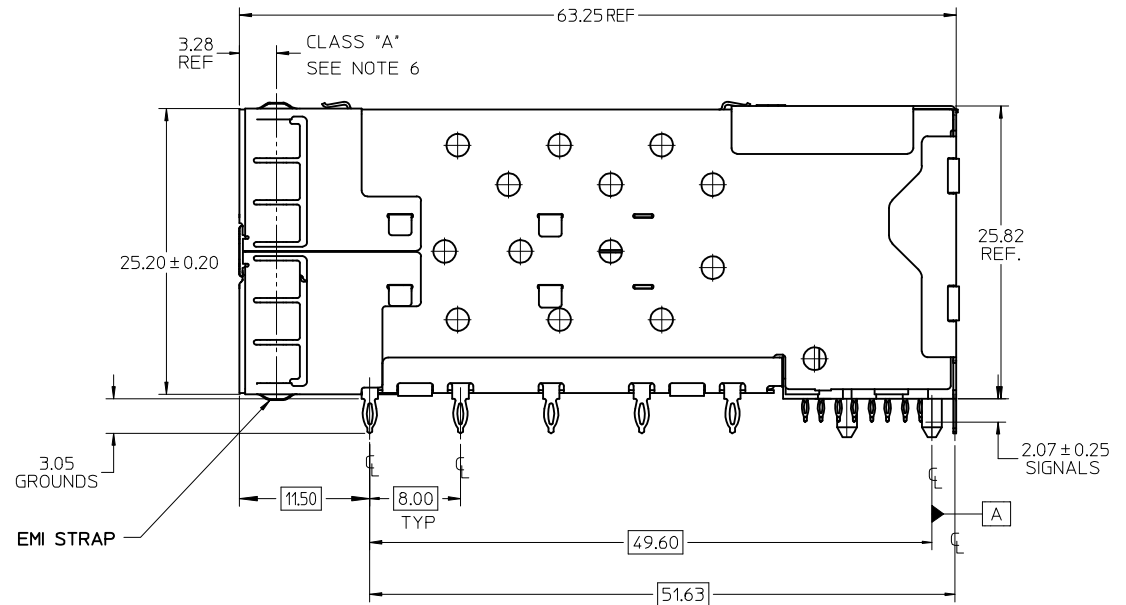
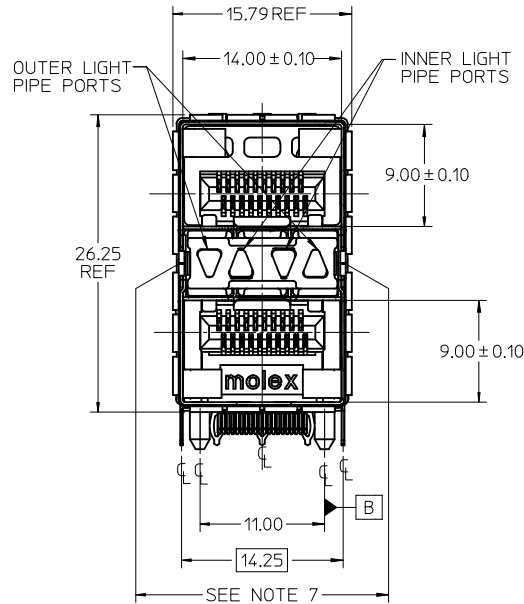
2 x 1 Medium

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, AS-76090-001
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.

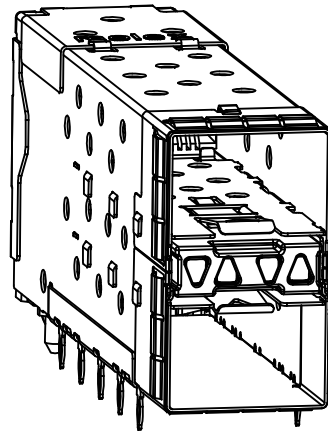
4. LIGHT PIPE PAD LAYOUT IS FOR 0805 LOW-PROFILE LED PACKAGE, FOR OTHER RECOMMENDED LAYOUTS REFER TO MOLEX'S REPORT TS-75310-001.

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

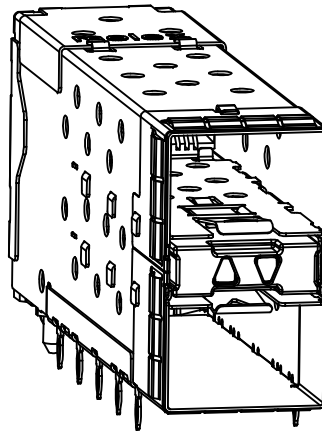
6. ALL EXTERIOR SURFACES TO BE CLASS *B* SURFACE EXCEPT THE UNDER SIDE OF THE CAGE WHERE THE PCB WOULD BE LOCATED AND AS NOTED. THE SURFACES TO CONFORM TO THE MOLEX COSMETIC DOC PS-45499-002.

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.

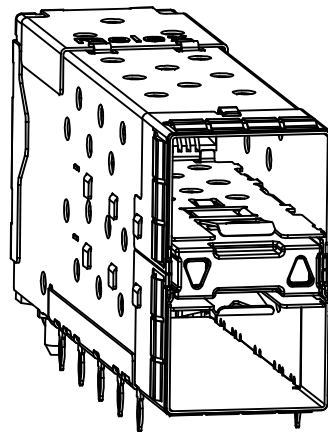
ADD NOTE 7/KEEPOUT'S EC NO: UCP2009-1582 DRWN:MS IBARRA 2009/01/07 CHKD:BBARKER 2009/01/09 APPR:SMILLER 2009/01/12	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
					MM ONLY		3:1	METRIC				
					DRAWN BY JJANTELEZ10		DATE 11-3-06		TITLE STACKED SFP+ 2X1 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES			
					CHECKED BY JLONG		DATE 2-1-2007					
					APPROVED BY KREGNIER		DATE 2-1-2007					
					MATERIAL NO.		DOCUMENT NO.					
					ANGULAR ± 5 °		SEE TABLE		SD-76044-001		SHEET NO. 1 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			



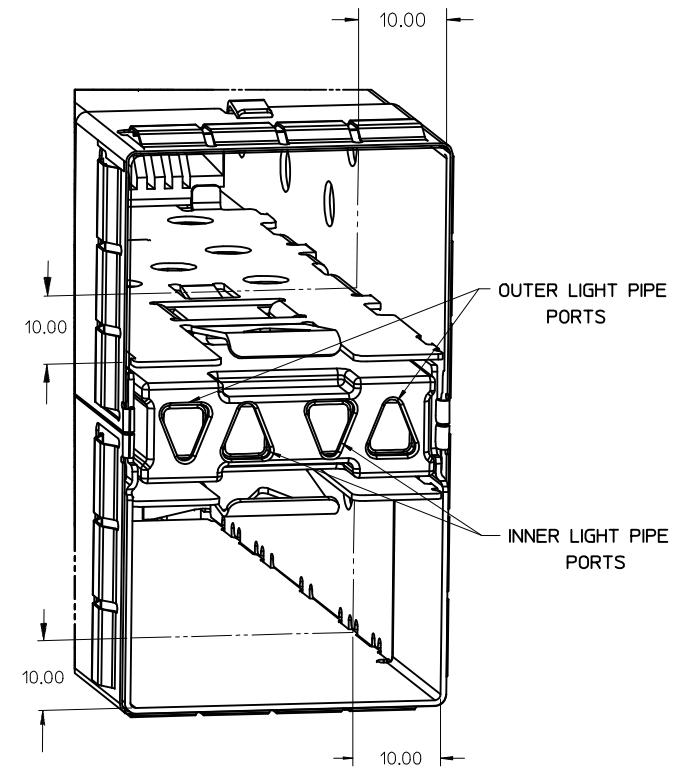
760440001 AND 760445001
WITH INNER AND OUTER LIGHT PIPES



760440002 AND 760445002
WITH INNER LIGHT PIPES

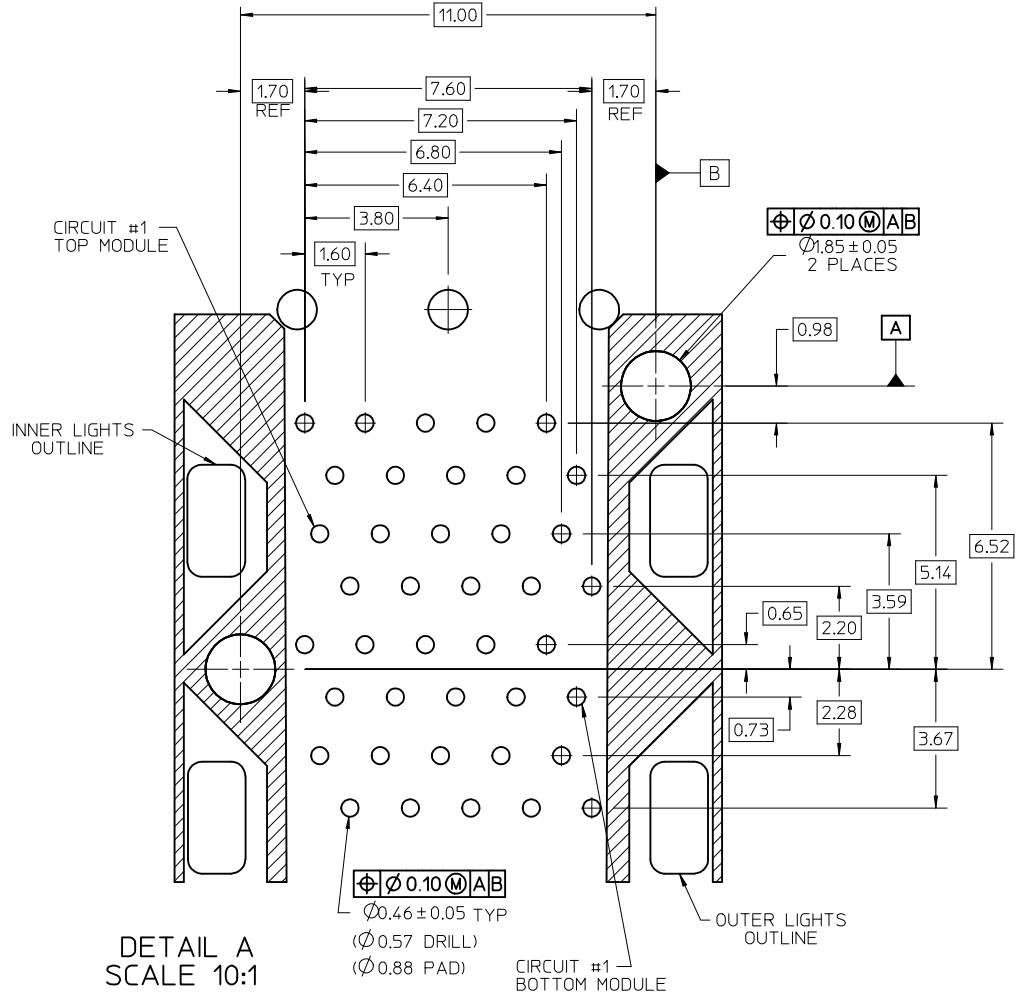


760440003 AND 760445003
WITH OUTER LIGHT PIPES

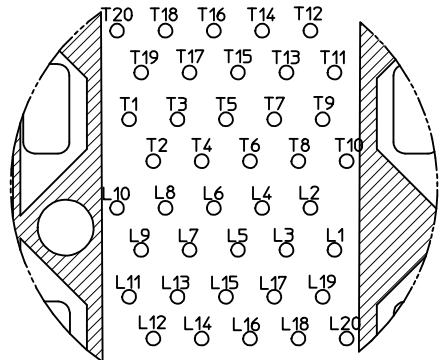


MODULE PORT DETAIL
10.00MM AREA SETBACK IN CAGE IS TO BE FREE OF ANY
HOLES, DIMPLES, SEAMS OR ANY OTHER FEATURES.
(4 SIDES PER MODULE PORT)

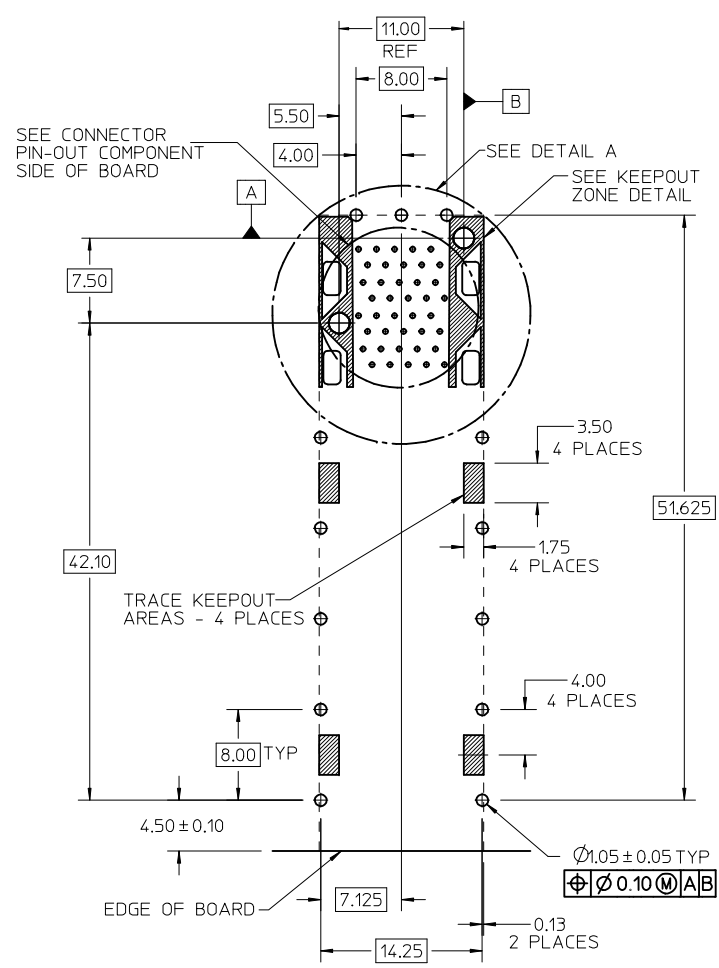
SEE SHEET 1 EC NO: UCP2009-1582 DRWN:MSI BARRA 2009/01/07 CHKD:BBARKER 2009/01/09 APPR:SMILLER 2009/01/12	REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY JJANTELEZIO		DATE 11-3-06		TITLE STACKED SFP+ 2X1 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES
				4 PLACES	± ---	± ---	CHECKED BY		DATE		
				3 PLACES	± ---	± ---	JLONG		2-1-2007		
				2 PLACES	± 0.13	± ---	APPROVED BY		DATE		
				1 PLACE	± 0.25	± ---	KREGNIER		2-1-2007		
				ANGULAR ± 5 °		MATERIAL NO.		DOCUMENT NO.			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-76044-001		SHEET NO. 2 OF 4					
SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										



DETAIL A
SCALE 10:1

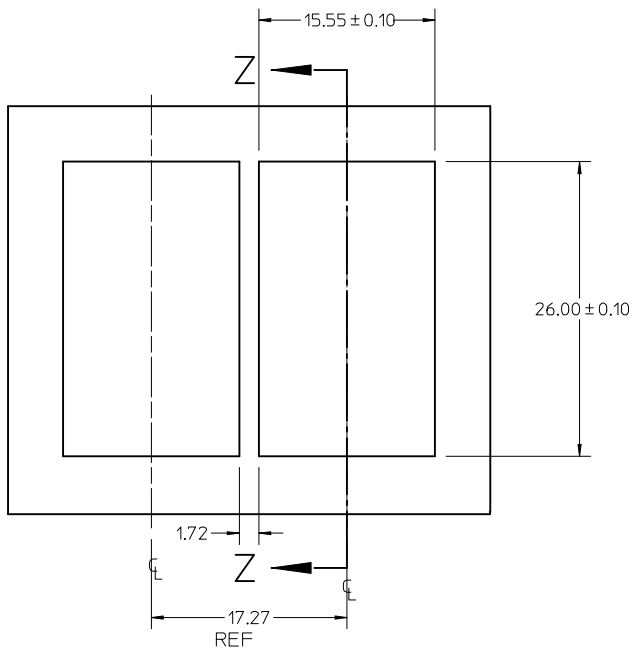


CONNECTOR PIN-OUT
COMPONENT SIDE OF BOARD
SCALE 10:1

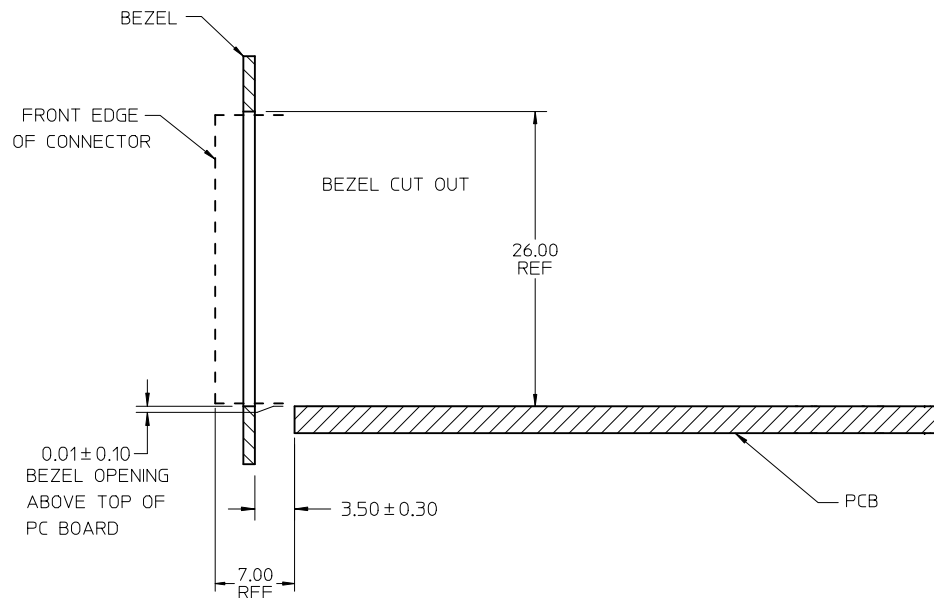


RECOMMENDED PCB LAYOUT - COMPONENT SIDE
RECOMMENDED PCB THICKNESS - 2.36 MM (.093 INCH)
THE ENTIRE AREA OF THE CONNECTOR FOOTPRINT
TO BE CONSIDERED THE KEEPOUT AREA FOR COMPONENTS
(OTHER THAN LIGHT PIPE LED'S).
THIS AREA IS INDICATED BY THE DASHED LINE

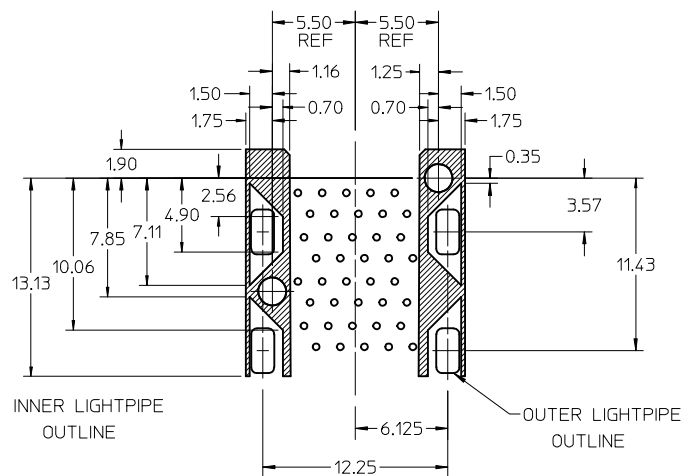
ADD KEEPOUT ZONES EC NO: UCP2009-1582 DRWN:MS BARA 2009/01/07 CHKD:BBARKER 2009/01/09 APPR:SMILLER 2009/01/12	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY JJANTELEZIO	DATE 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	± ---	± ---						
			2 PLACES	± 0.13	± ---	APPROVED BY KREGNIER	DATE 2-1-2007	molex MOLEX INCORPORATED			
			1 PLACE	± 0.25	± ---						
			ANGULAR ± 5 °		MATERIAL NO.	DOCUMENT NO.	SHEET NO.				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-76044-001		3 OF 4		
			REV			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 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		
					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 °		MOLEX MOLEX INCORPORATED			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE TABLE			SD-76044-001	
								SIZE C			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
											SHEET NO. 4 OF 4	