

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0760460003

Status:

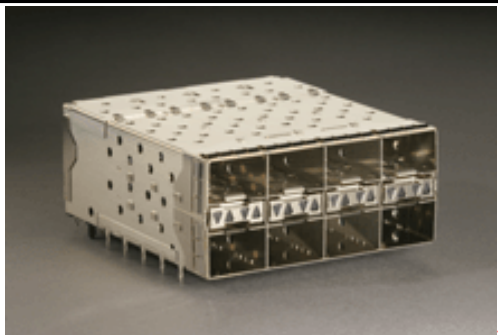
Active

Overview:

sfp_stacked_multiport_connectors

Description:

Small Form-factor Pluggable Plus (SFP+) Stacked 2-by-4 Multi-Port Connector with 2 Outer Lightpipe Ports, EMI Metal Gasket, 160 Circuits, Tin (Sn)/Lead(Pb) 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

UL

LR19980

E29179

General

Product Family

Series

Application

Component Type

Overview

Product Name

Type

I/O Connectors

76046

Module-to-Board

Receptacle

sfp_stacked_multiport_connectors

SFP Plus

N/A

Physical

Boot Color

Circuits (Loaded)

Circuits (maximum)

Circuits Detail

Color - Resin

Durability (mating cycles max)

Flammability

Gender

Keying to Mating Part

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Panel Mount

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

N/A

160

160

160

Black, Clear (Blue Tint)

100

94V-0

Female

None

Yes

High Performance Alloy (HPA)

Gold

Tin-Lead

High Temperature Thermoplastic, Polycarbonate

2

Right Angle

0.081 In

2.07 mm

Yes

Yes

0.062 In

1.57 mm

Tray

No

0.031 In

0.80 mm

0.031 In

0.80 mm

30.4

0.76

30.4

EU RoHS

RoHS Compliant by Exemption

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
76046Series

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 Stacked Multi-Port Insertion Tool, 2 by 4	0622029920
SFP Stacked Multi-Port Extraction Tool, 2 by 4	0622029940

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

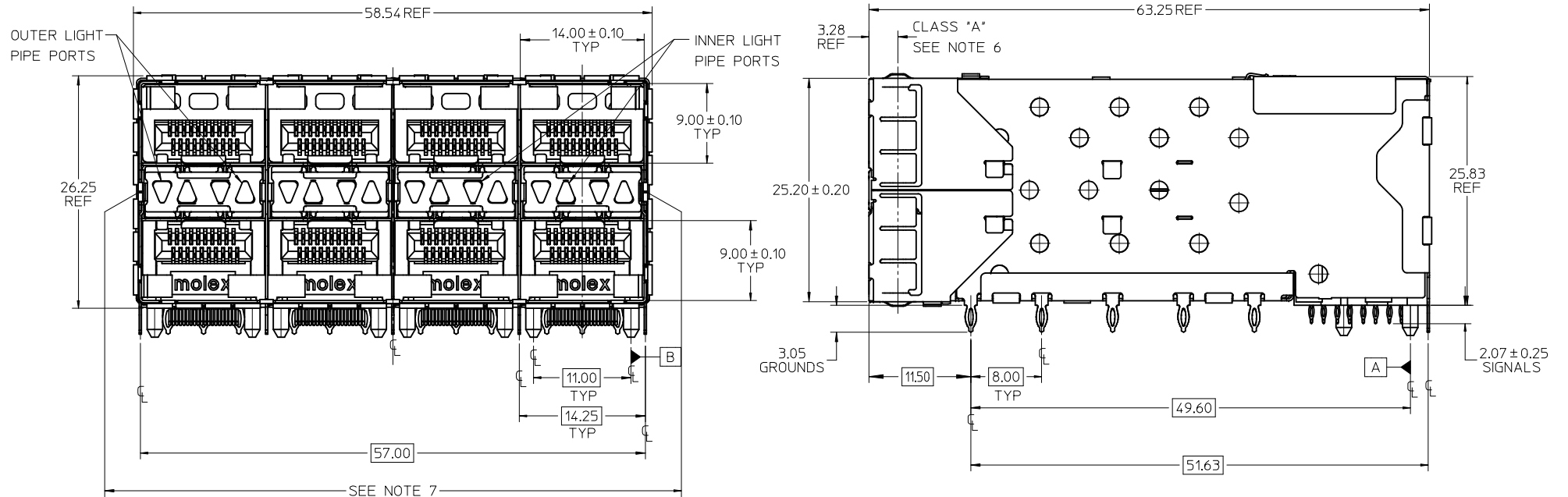
Reference - Drawing Numbers

Application Specification	AS-75310-001, AS-76090-001
Packaging Specification	PK-75450-001
Product Specification	PS-75310-001
Sales Drawing	SD-76046-001
Test Summary	TS-75310-001

This document was generated on 05/27/2010

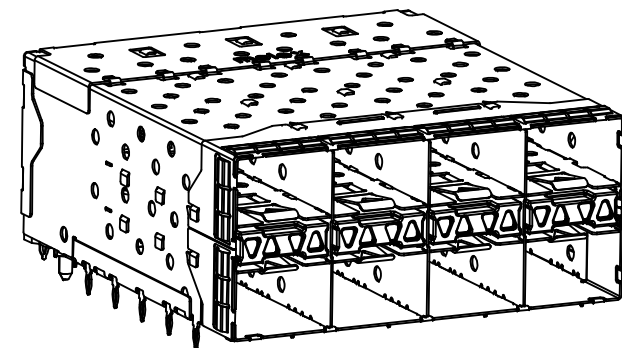
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PART NUMBER	DESCRIPTION	VIEW	COMPLIANT TAIL PLATING
760460001	4 LIGHT PORTS	SEE PG 2	TIN / LEAD
760460002	INNER 2 PORTS	SEE PG 2	TIN / LEAD
760460003	OUTER 2 PORTS	SEE PG 2	TIN / LEAD
760465001	4 LIGHT PORTS	SEE PG 2	TIN
760465002	INNER 2 PORTS	SEE PG 2	TIN
760465003	OUTER 2 PORTS	SEE PG 2	TIN

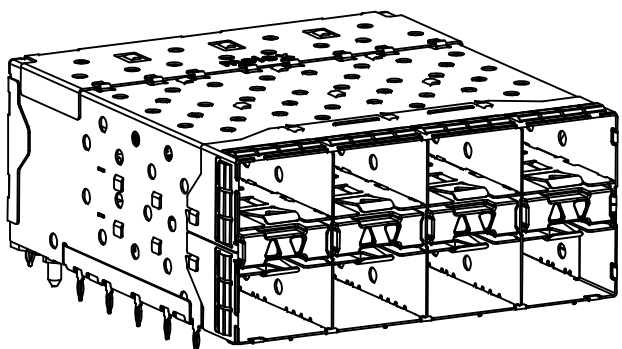


- NOTES:
- MATERIAL:
 - CAGE: NICKEL SILVER, THICKNESS: 0.25mm
 - EMI GASKET: PHOS-BRONZE
 - CONNECTOR HOUSING: GLASS FILLED HIGH TEMP PLASTIC, 94 V-0, COLOR: BLACK
 - OVERMOLDED TERMINAL HOUSING: GLASS FILLED HIGH TEMP PLASTIC, 94 V-0, COLOR: BLACK
 - TERMINALS: TIN BRASS
 - LIGHT PIPES: POLYCARBONATE, 94 V-0, COLOR: CLEAR
 - LIGHT PIPE HOUSING: ZINC
 - FINISH:
 - LIGHT PIPE HOUSING: 150 MICRONS NICKEL OVER 150 MICRONS COPPER
 - TERMINALS: CONTACT AREA: 0.76 MICROS MIN. HARD GOLD OVER 1.27 MICRONS NICKEL.
 - COMPLIANT TAIL - TIN/LEAD OPTION: 0.76 - 1.52 MICRONS 90/10 TIN/LEAD OVER 0.76 - 1.52 MICRONS NICKEL
 - COMPLIANT TAIL - TIN OPTION: 0.76 - 1.52 MICRONS TIN OVER 0.76 - 1.52 MICRONS NICKEL
 - EMI GASKET: 2.54 MICRONS NICKEL OVERALL
 - 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-75450-001 FOR ALL PACKAGING SPECIFICATIONS.
 - 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.
 - THE OVERALL CAGE WIDTH AT THE VERTICAL CENTER OF THE FRONT EDGE WILL FALL WITHIN THIS DIMENSION: 57.80+/-0.30 MM. THIS PORTION OF THE CAGE WILL FLEX INWARD AS THE CAGE IS BEING INSERTED INTO THE BEZEL OPENING.

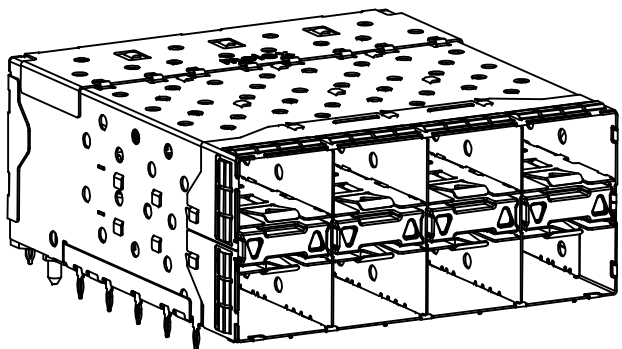
ADD NOTE 7/KEEPOUT'S EC NO: UCP2009-1582 DRWN:MSBARRA 2009/01/07 CHKD:BBARKER 2009/01/09 APPR:SMILLER 2009/01/12	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY MSANDBERG	DATE 1-26-2006	TITLE STACKED SFP+ 2X4 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES			
			4 PLACES	± ---	± ---	CHECKED BY JLONG	DATE 1-26-2006				
			3 PLACES	± ---	± ---						
			2 PLACES	± 0.13	± ---						
			1 PLACE	± 0.25	± ---	APPROVED BY RNELSON	DATE 1-26-2006				
			ANGULAR ± 5 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO. 1 OF 4	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-76046-001			
						SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



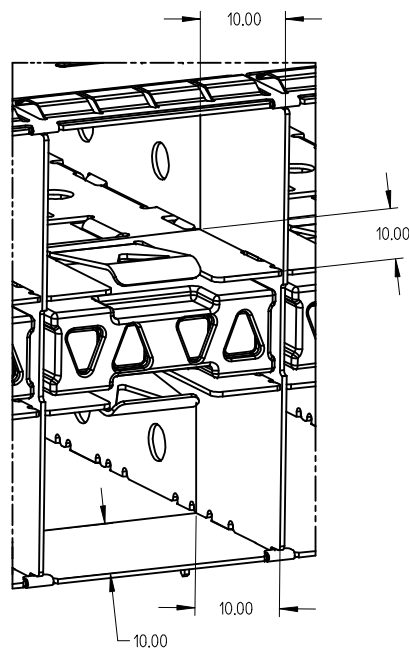
760460001 AND 760465001
WITH INNER AND OUTER LIGHT PIPES



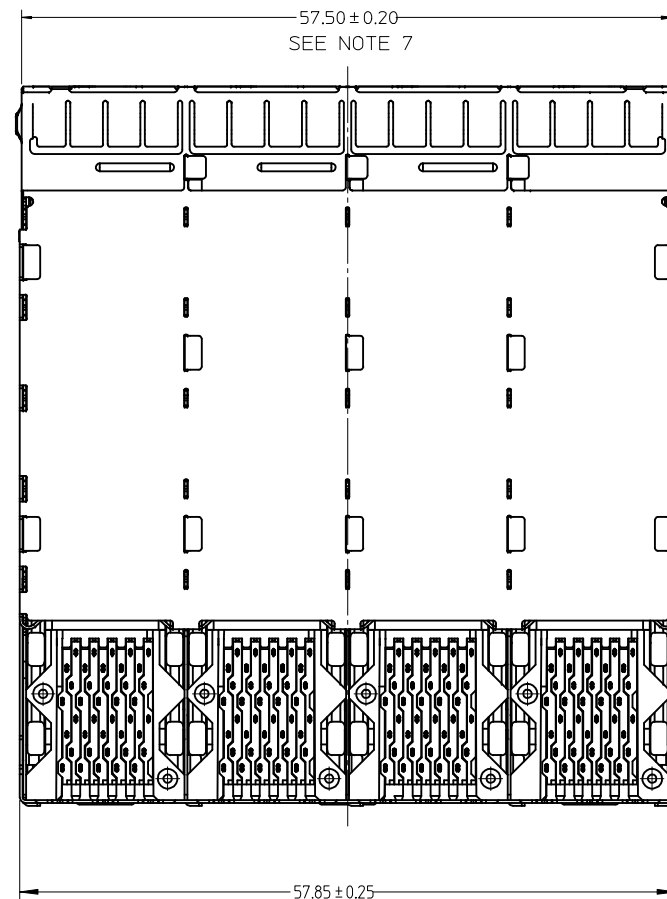
760460002 AND 760465002
WITH INNER LIGHT PIPES



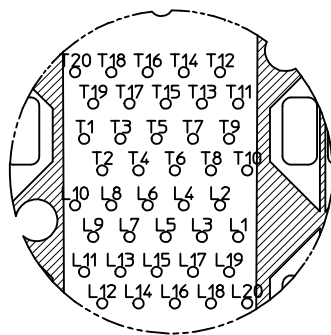
760460003 AND 760465003
WITH OUTER LIGHT PIPES



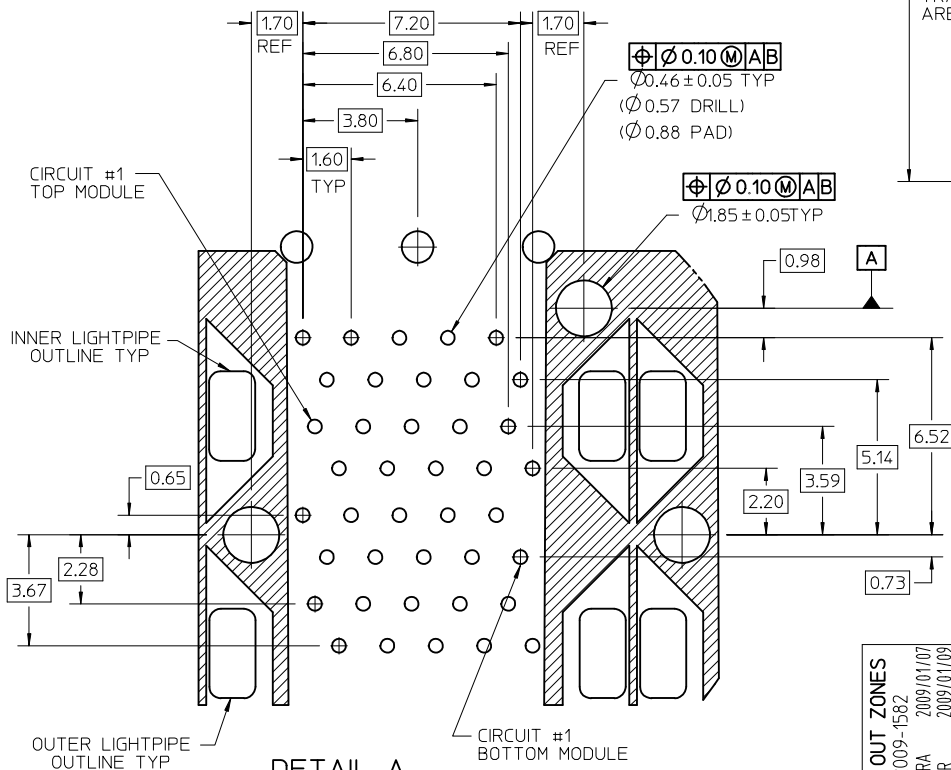
10.00mm AREA SETBACK IN CAGE IS TO BE FREE OF ANY
HOLES, DIMPLES, SEAMS OR ANY OTHER FEATURE.
(4 SIDES PER MODULE PORT)



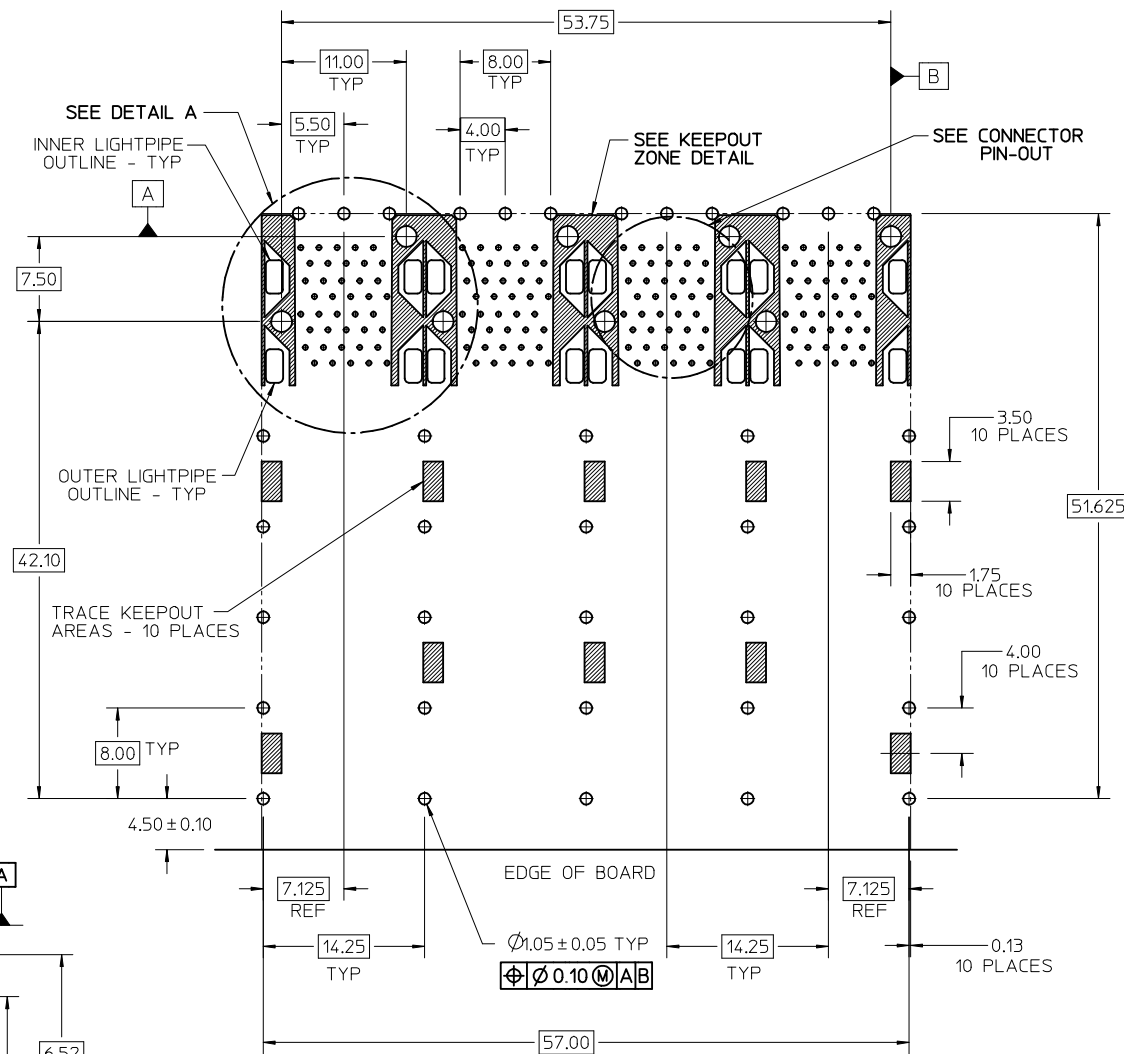
SEE SHEET 1 EC NO: UCP2009-1582 D DRAWN BY: MSANDBERG 2009/01/07 CHKD BY: JLONG 2009/01/09 APPR: SWILLER 2009/01/12	REV DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY MSANDBERG	DATE 1-26-2006	TITLE STACKED SFP+ 2X4 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES MOLEX MOLEX INCORPORATED	
			4 PLACES ±	---	± ---	CHECKED BY JLONG	DATE 1-26-2006		
			3 PLACES ±	---	± ---	APPROVED BY RNELSON	DATE 1-26-2006		
			2 PLACES ±	0.13	± ---	MATERIAL NO.	DOCUMENT NO.		
			1 PLACE ±	0.25	± ---	SEE TABLE			
			ANGULAR ± 5 °			SD-76046-001		SHEET NO. 2 OF 4	
			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			



CONNECTOR PIN-OUT
COMPONENT SIDE OF BOARD



DETAIL A
SCALE 8:1



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 THE LIGHT PIPE LED'S)
THIS AREA IS INDICATED BY THE DASHED LINE

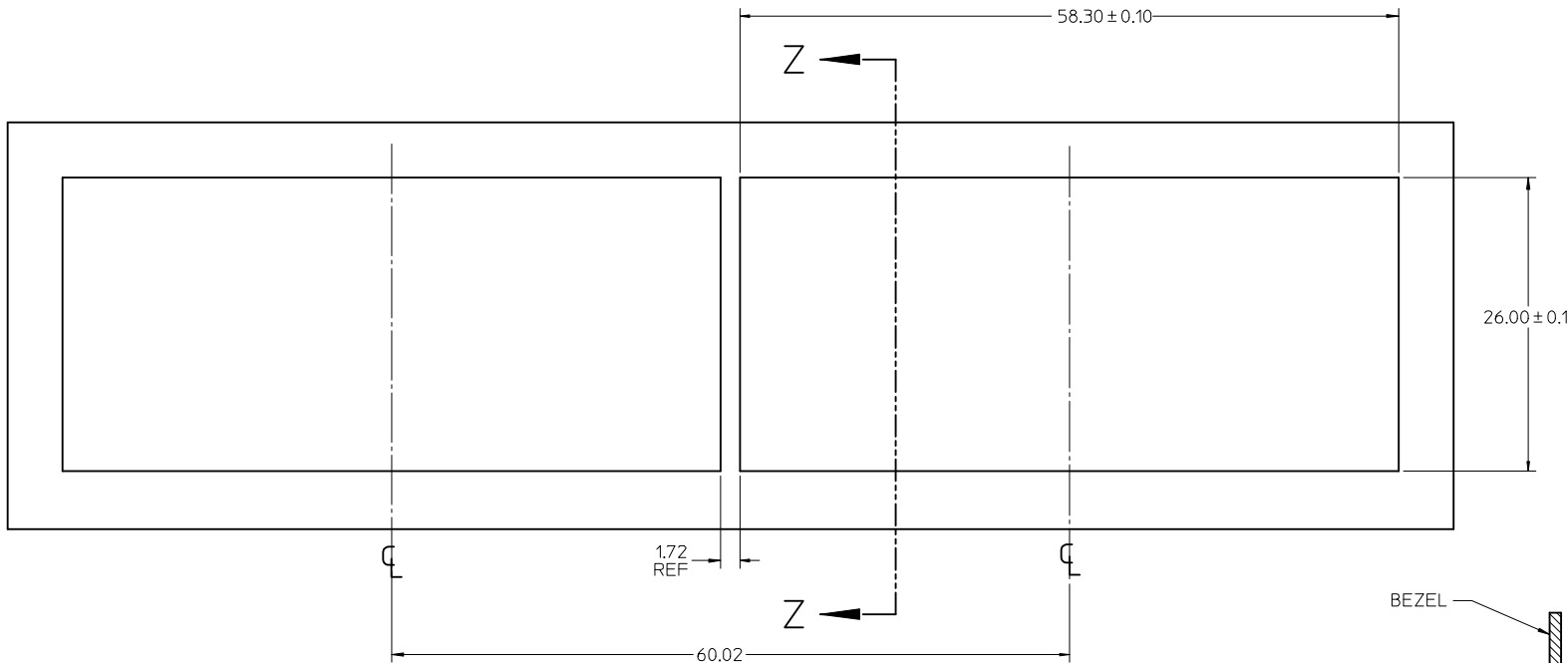
ADD KEEP OUT ZONES
EC NO: UCP2009-1582
DRAWN BY: DRWN:MSBARA 2009/01/07
CHKD:BBARKER 2009/01/09
APPR:SMILLER 2009/01/12

QUALITY SYMBOLS
▽=0
▽=0

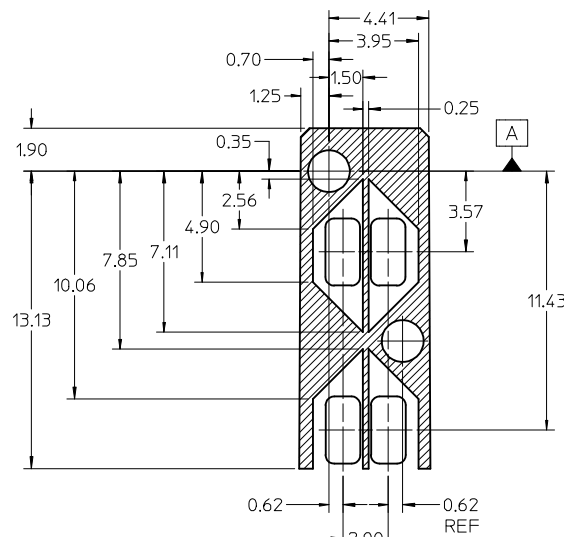
GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± 0.13 ± ---
1 PLACE ± 0.25 ± ---
ANGULAR ± 5 °
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY
DRAWN BY: MSANDBERG DATE: 1-26-2006
CHECKED BY: JLONG DATE: 1-26-2006
APPROVED BY: RNELSON DATE: 1-26-2006
MATERIAL NO.
SEE TABLE
SIZE: C

SCALE: 3:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION
TITLE: STACKED SFP+ 2X4 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES
MOLEX INCORPORATED
DOCUMENT NO.: SD-76046-001
SHEET NO.: 3 OF 4
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

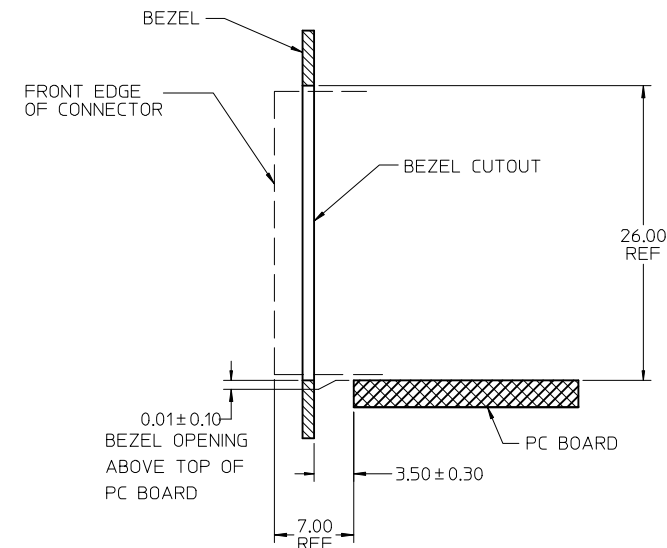


BEZEL CUTOUT CENTER SPACING DETAIL
BEZEL THICKNESS 0.8-2.6



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



SECTION Z-Z
SCALE 3:1

SEE SHEET 1 EC NO: UCP2009-1582 DRWN:SI BARRA 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 MSANDBERG	DATE 1-26-2006	STACKED SFP+ 2X4 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES	
			4 PLACES	± ---	± ---	CHECKED BY JLONG	DATE 1-26-2006		
			3 PLACES	± ---	± ---	APPROVED BY RNELSON	DATE 1-26-2006		
			2 PLACES	± 0.13	± ---	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-76046-001		
			1 PLACE	± 0.25	± ---	SHEET NO. 4 OF 4			
			ANGULAR ± 5 °						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						