

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0760465001

Status:

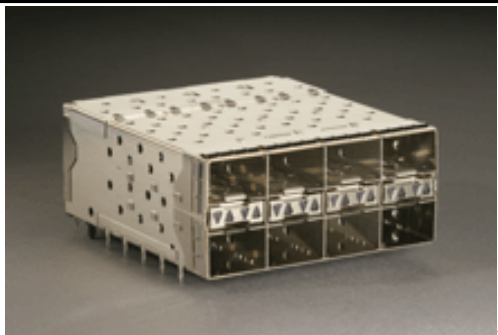
Active

Overview:

sfp_stacked_multiport_connectors

Description:

Small Form-factor Pluggable Plus (SFP+) Stacked 2-by-4 Multi-Port Connector with 4 Lightpipe Ports, EMI Metal Gasket, 160 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	76046
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)	160
Circuits (maximum)	160
Circuits Detail	160
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
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.

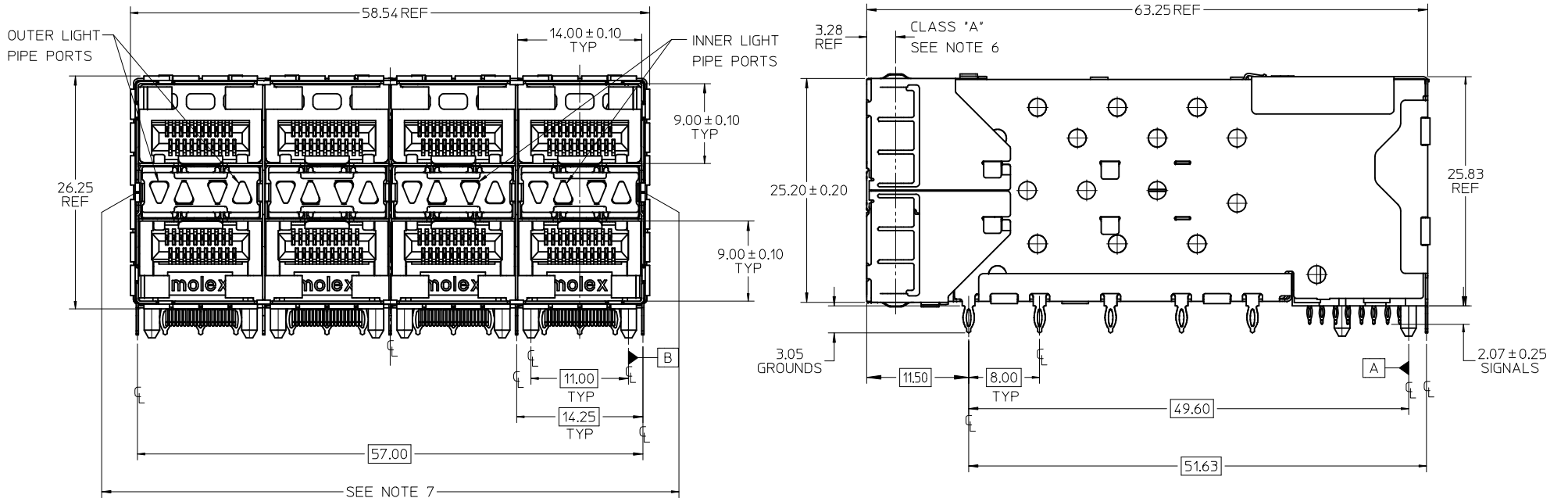
Description	Product #
SFP Stacked Multi-Port Insertion Tool, 2 by 4	0622029920
SFP Stacked Multi-Port Extraction Tool, 2 by 4	0622029940

Plating min: Termination (µm)	0.76
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	8
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-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

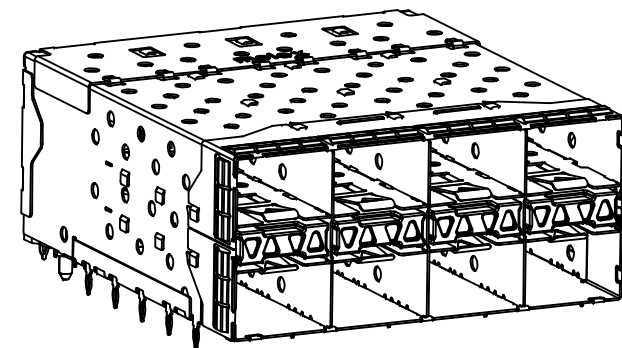
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PART NUMBER	DESCRIPTION	VIEW	COMPLIANT TAIL PLATING
760460001	4 LIGHT PORTS	SEE PG 2	TIN / LEAD
760460002	INNER 2 PORTS	SEE PG 2	TIN / LEAD
760460003	OUTER 2 PORTS	SEE PG 2	TIN / LEAD
760465001	4 LIGHT PORTS	SEE PG 2	TIN
760465002	INNER 2 PORTS	SEE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

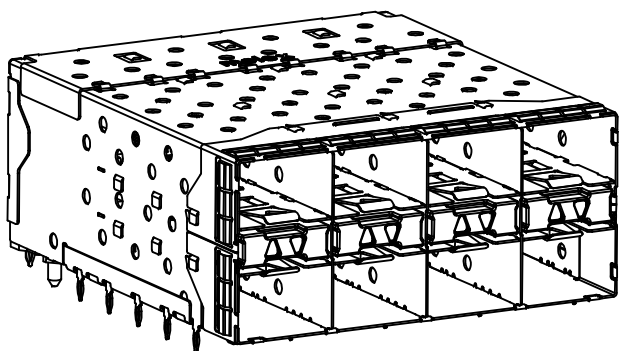


- NOTES:
- MATERIAL:
CAGE: NICKEL SILVER, THICKNESS: 0.25mm
EMI GASKET: PHOS-BRONZE
CONNECTOR HOUSING: GLASS FILLED HIGH TEMP PLASTIC, 94 V-0
COLOR: BLACK
OVERMOLDED TERMINAL HOUSING: GLASS FILLED HIGH TEMP PLASTIC, 94 V-0, COLOR: BLACK
TERMINALS: TIN BRASS
LIGHT PIPES: POLYCARBONATE, 94 V-0, COLOR: 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.

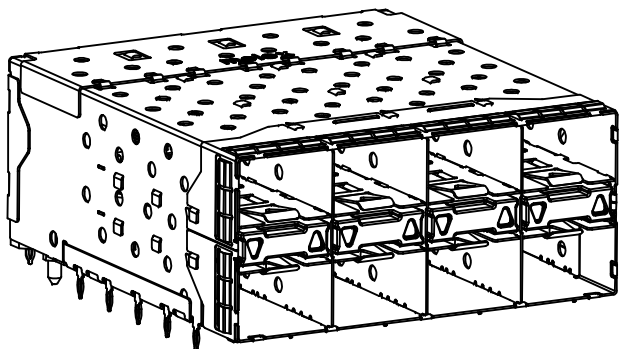
ADD NOTE 7/KEEPOUT'S EC NO: UCP2009-1582 DRWN:MSBARRA 2009/01/07 CHKD:BBARKER 2009/01/09 APPR:SMILLER 2009/01/12 D	REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION							
					mm	INCH	DRAWN BY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



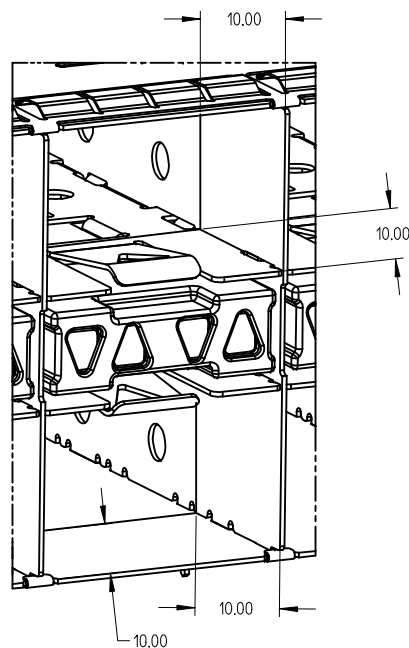
760460001 AND 760465001
WITH INNER AND OUTER LIGHT PIPES



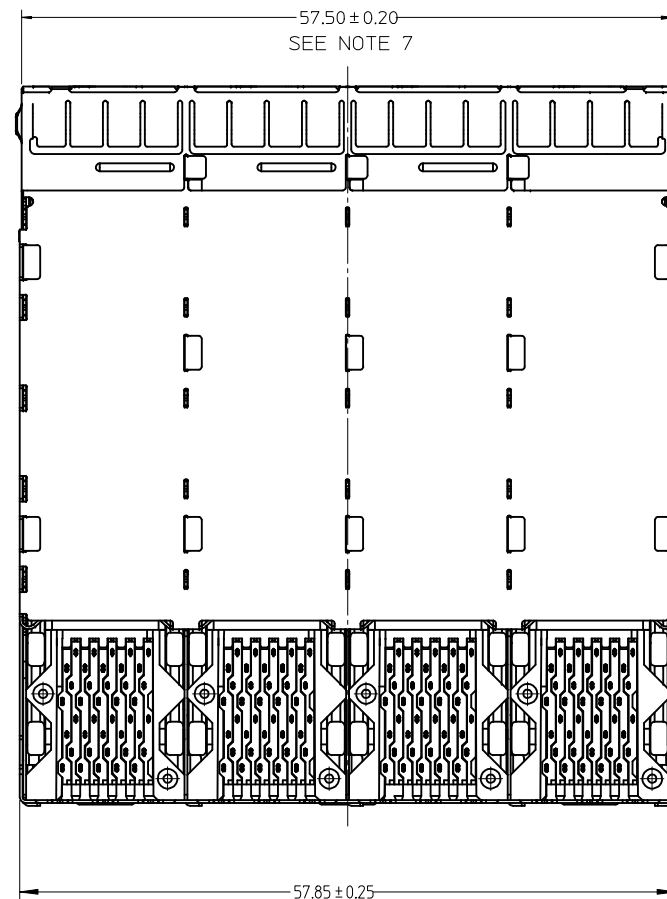
760460002 AND 760465002
WITH INNER LIGHT PIPES



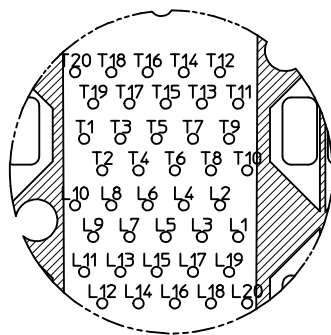
760460003 AND 760465003
WITH OUTER LIGHT PIPES



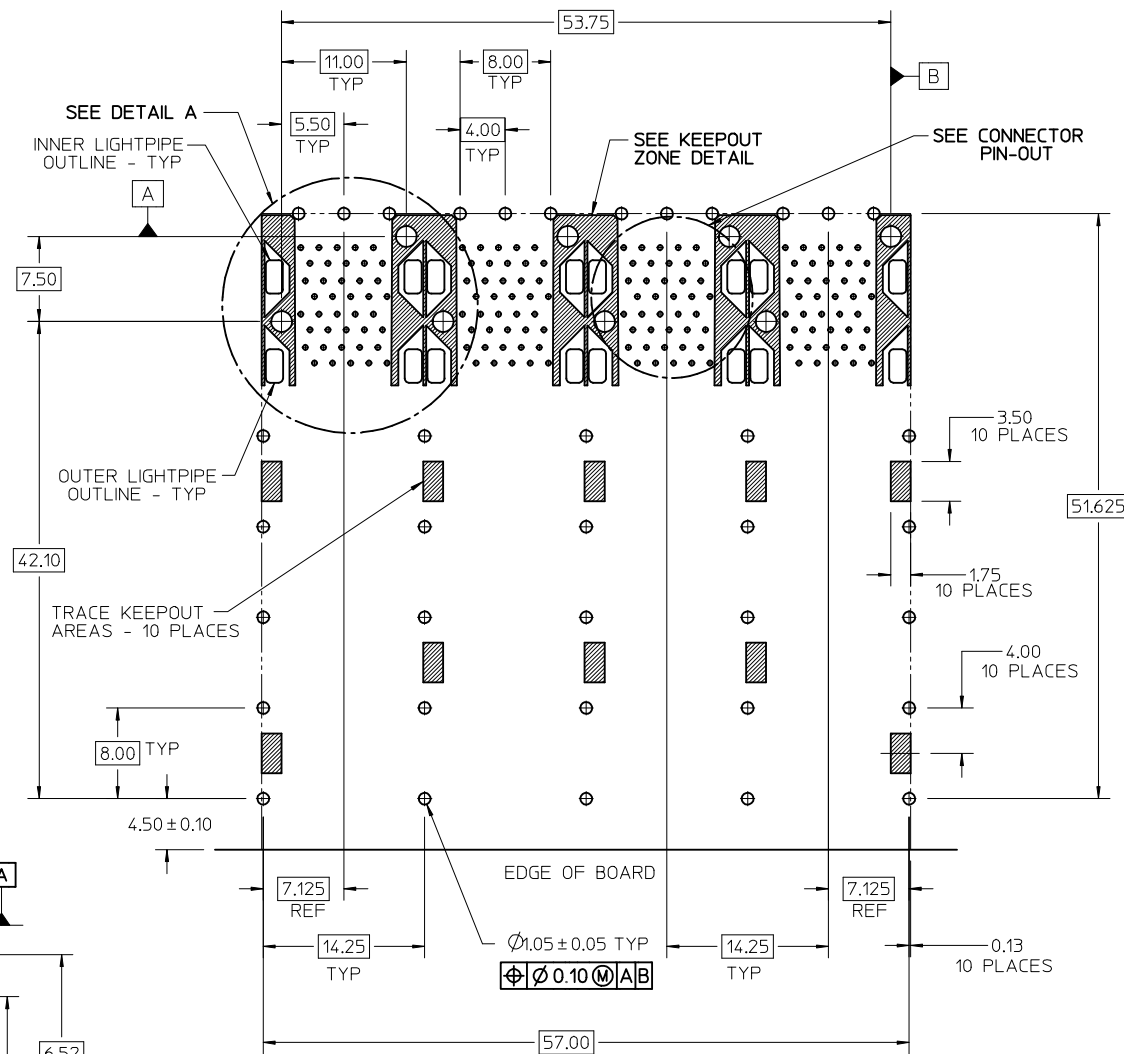
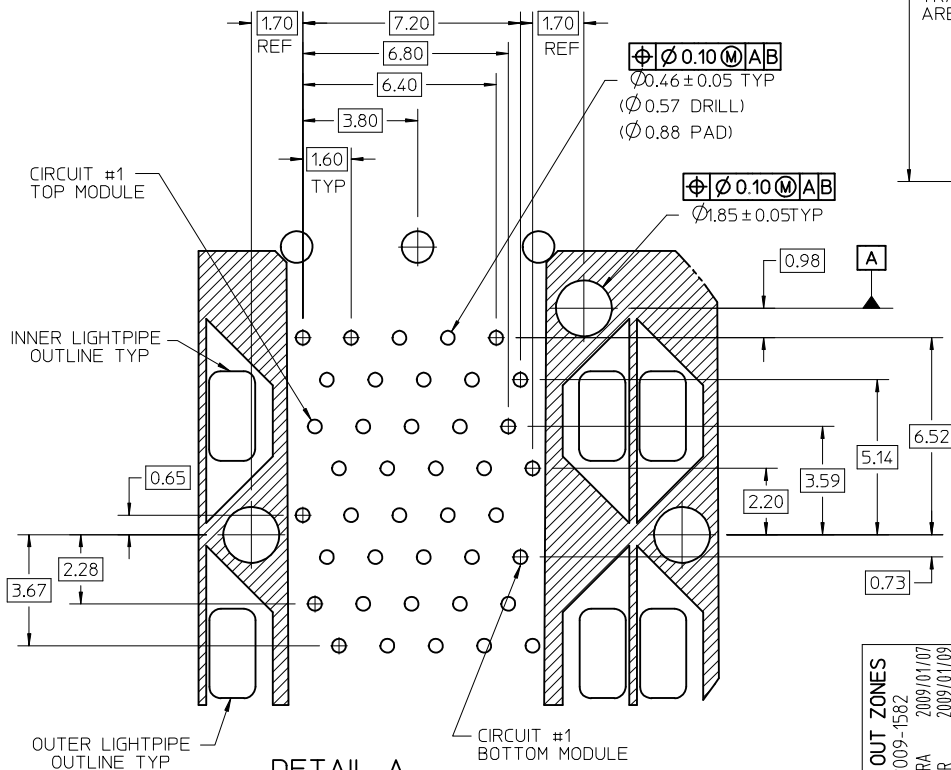
10.00mm AREA SETBACK IN CAGE IS TO BE FREE OF ANY HOLES, DIMPLES, SEAMS OR ANY OTHER FEATURE.
(4 SIDES PER MODULE PORT)



SEE SHEET 1	EC NO: UCP2009-1582			DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	D					mm			MM ONLY		3:1	METRIC		
	DRAWN BY: MSANDBERG					INCH			DRAWN BY: MSANDBERG		DATE: 1-26-2006	STACKED SFP+ 2X4 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES		
	CHECKED BY: JLONG								CHECKED BY: JLONG		DATE: 1-26-2006			
	APPROVED BY: RNELSON								APPROVED BY: RNELSON		DATE: 1-26-2006			
	REV					ANGULAR ± 5 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-76046-001		2 OF 4	
									SIZE C		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 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	DATE
MSANDBERG	1-26-2006

CHECKED BY	DATE
JLONG	1-26-2006

APPROVED BY	DATE
RNELSON	1-26-2006

MATERIAL NO.
SEE TABLE

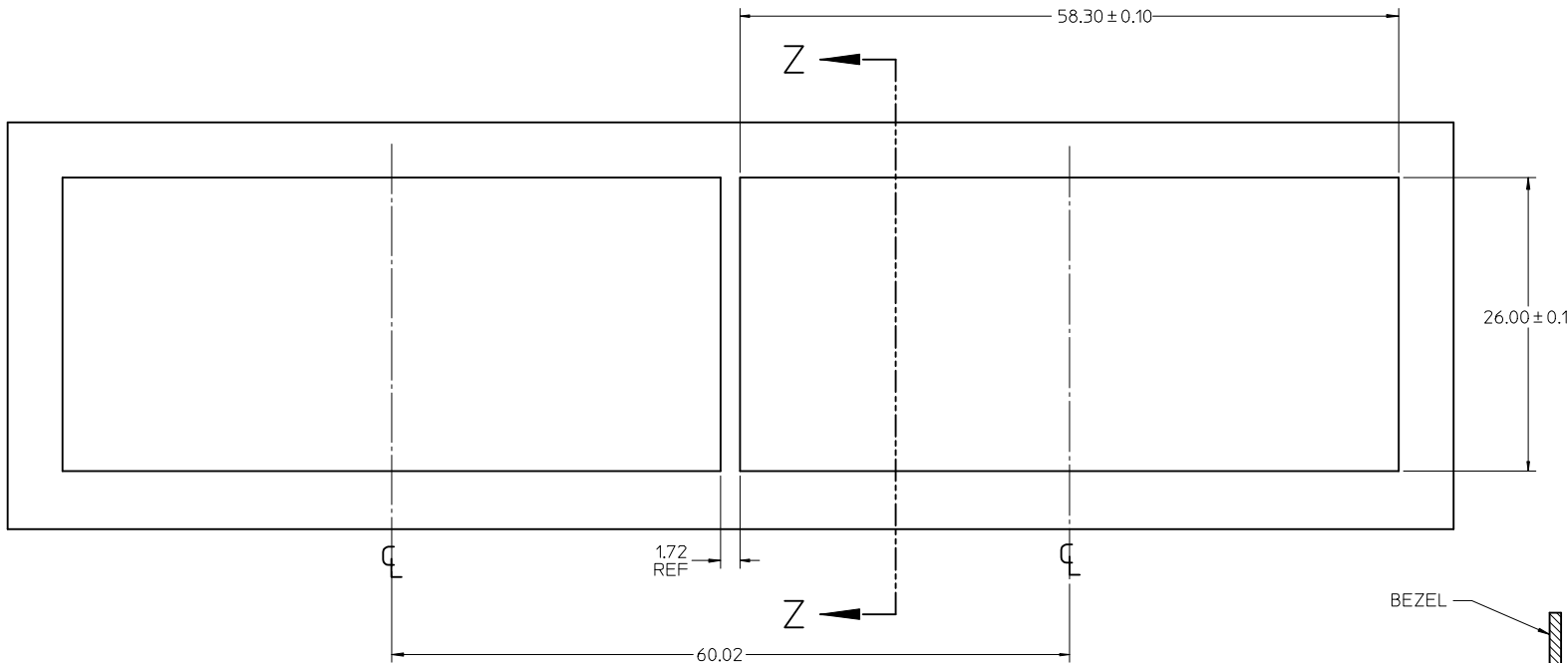
SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
3:1	METRIC	

TITLE
STACKED SFP+ 2X4 ASS'Y
WITH METAL EMI GASKET
AND LIGHTPIPES

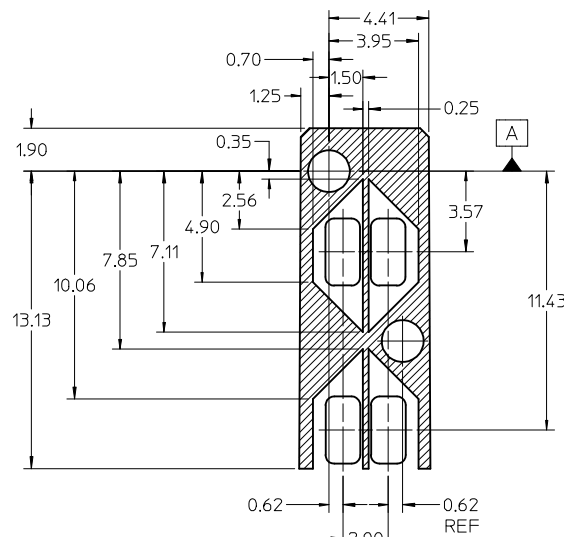
MOLEX INCORPORATED

DOCUMENT NO.
SD-76046-001

SHEET NO.
3 OF 4

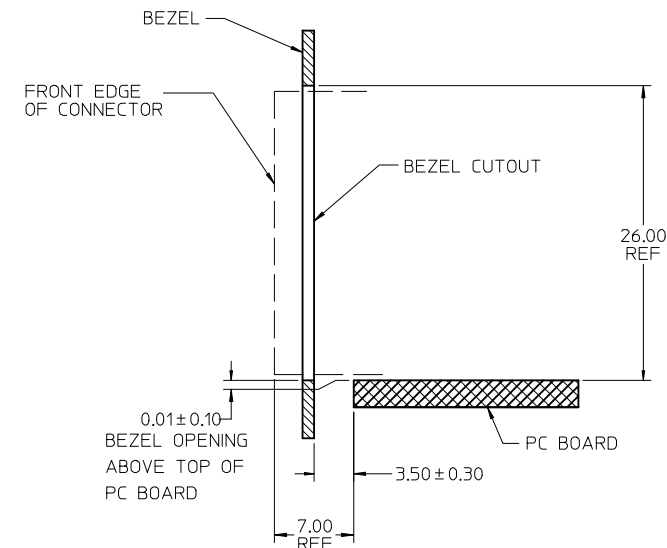


BEZEL CUTOUT CENTER SPACING DETAIL
BEZEL THICKNESS 0.8-2.6



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 D DRWN:MS IBARRA 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	
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			2 PLACES	± 0.13	± ---	MATERIAL NO. SEE TABLE				DOCUMENT NO. SD-76046-001
			1 PLACE	± 0.25	± ---	SIZE C				
			ANGULAR ± 5 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

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