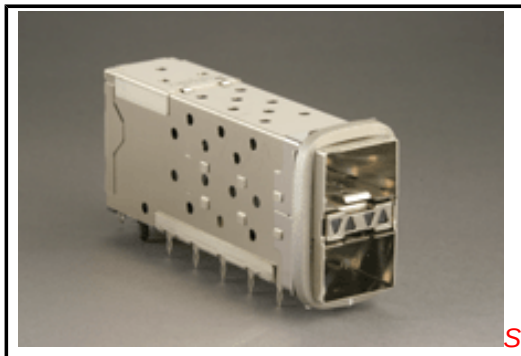
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This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0760900003
Status: Active
Overview: sfp_stacked_multiport_connectors
Description: Small Form-factor Pluggable Plus (SFP+) Stacked 2-by-1 Multi-Port Press Fit Connector with Outer 2 Lightpipe Ports, Elastomeric Gasket, 40 Circuits, Tin (Sn)/ Lead(Pb) Tails



Series image - Reference only

Documents:

Drawing (PDF)
3D Model
Application Specification (PDF)
Test Summary (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	76090
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
Durability (mating cycles max)	100
Flammability	94V-0
Gender	Female
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Plating Mating	Gold
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
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

EU RoHS
RoHS Compliant by Exemption
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
76090Series

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, 2 x 1 Medium	0622029910
SFP Extraction Tool, 2 x 1 Medium	0622029930

Waterproof / Dustproof	No

Electrical

Current - Maximum per Contact	0.5A
Grounding to Panel	None
Shield Type	EMI Gasket, Full Shield
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC

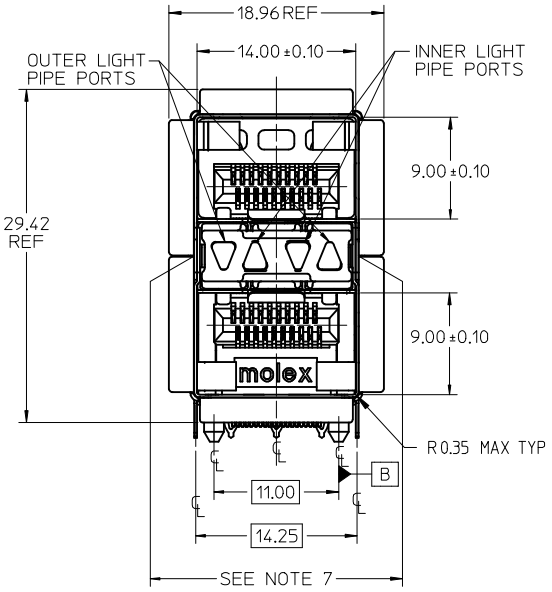
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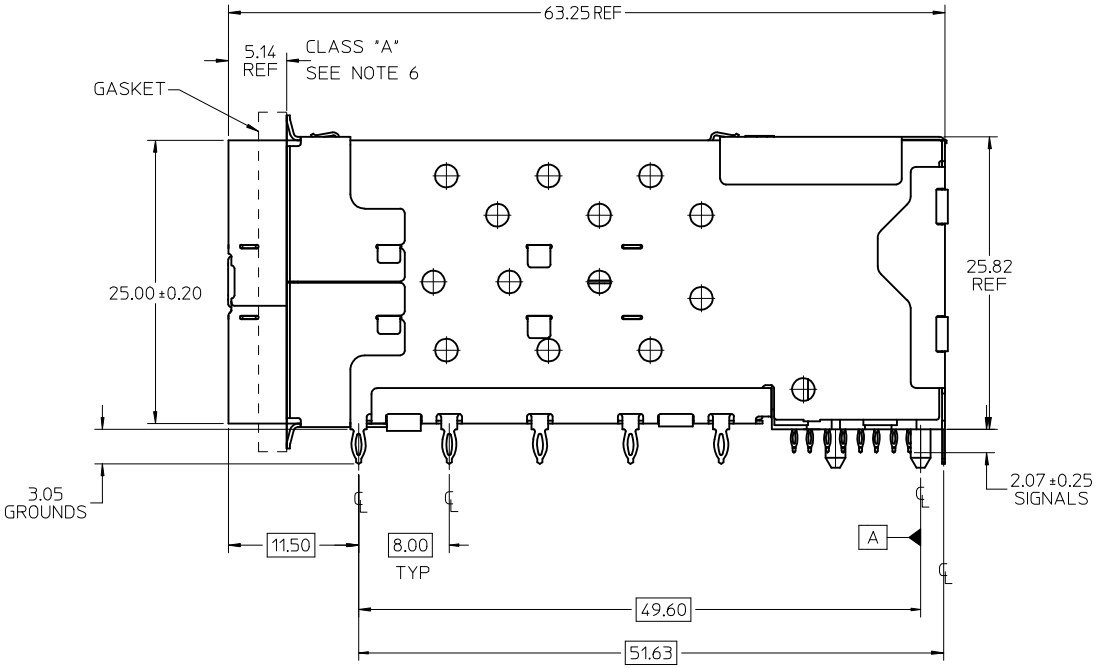
Reference - Drawing Numbers

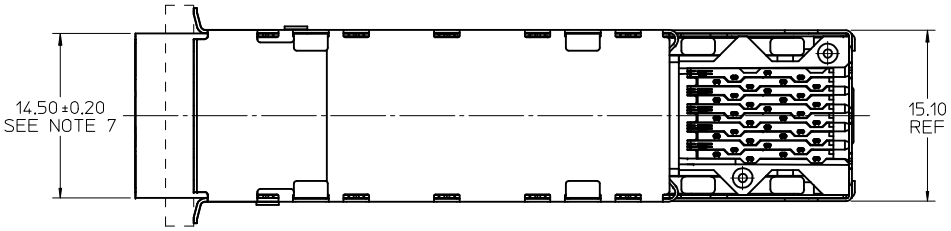
Application Specification	AS-76090-001
Packaging Specification	PK-75462-001
Product Specification	PS-75310-001
Sales Drawing	SD-76090-001
Test Summary	TS-75310-001

This document was generated on 05/27/2010
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

PART NUMBER	DESCRIPTION	VIEW	COMPLIANT TAIL PLATING
760900001	4 LIGHT PORTS	SEE PG 2	TIN / LEAD
760900002	INNER 2 PORTS	SEE PG 2	TIN / LEAD
760900003	OUTER 2 PORTS	SEE PG 2	TIN / LEAD
760905001	4 LIGHT PORTS	SEE PG 2	TIN
760905002	INNER 2 PORTS	SEE PG 2	TIN
760905003	OUTER 2 PORTS	SEE PG 2	TIN
760903002	INNER 2 PORTS	SEE PG 2	TIN / LEAD







NOTES
1. MATERIAL:
   EMI GASKET: CONDUCTIVE POLYMER
   CAGE: NICKEL SILVER, THICKNESS: 0.25mm
   CAGE FLANGE: STAINLESS STEEL
   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
   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 - 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
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 PF 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: 14.75+/-0.30 MM. THIS PORTION OF THE CAGE WILL FLEX INWARD AS THE CAGE IS BEING INSERTED INTO THE BEZEL OPENING.

ADD 760903002
EC NO: 2009/08/28
DRWN: JKACHLIC 2009/11/05
CH'KD: APPR: MBANAKIS 2009/11/06
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 5 °		

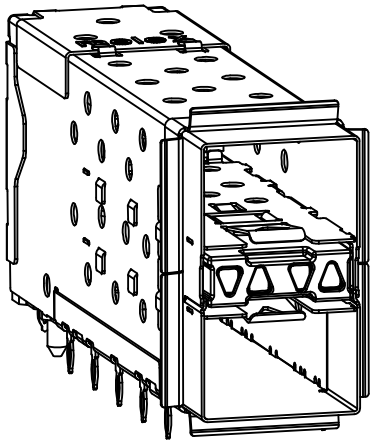
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 3:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

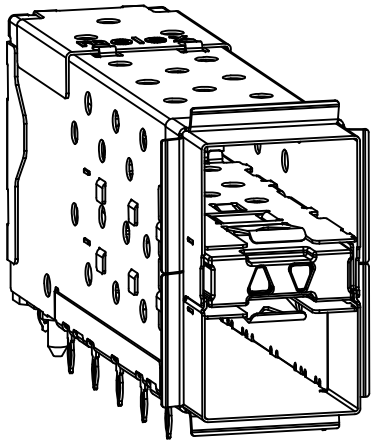
DRAWN BY: J JANTELEZIO DATE: 01-18-2007
CHECKED BY: MSANDBERG DATE: 01-18-2007
APPROVED BY: KREGNIER DATE: 01-18-2007
MATERIAL NO.: SEE TABLE

TITLE: STACKED SFP+ 2X1 ASS'Y WITH ELASTOMERIC GASKET AND LIGHTPIPES
molex MOLEX INCORPORATED
DOCUMENT NO.: SD-76090-001
SHEET NO.: 1 OF 4
SIZE: C

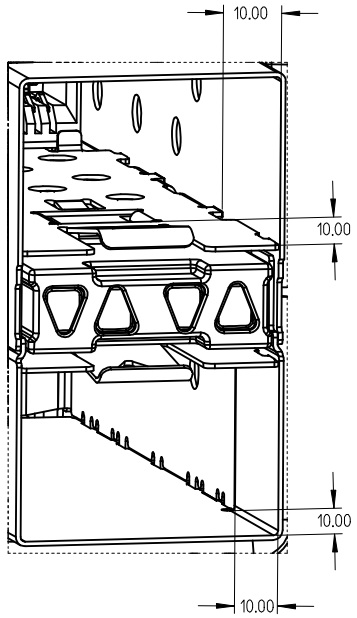
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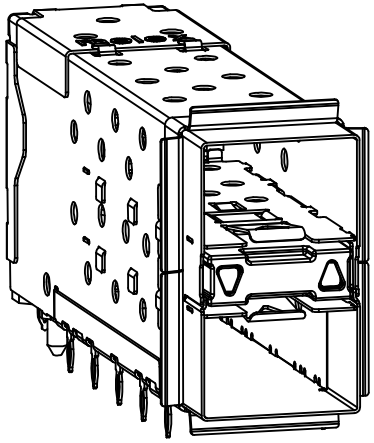
760900001 AND 760905001
WITH INNER AND OUTER LIGHT PIPES



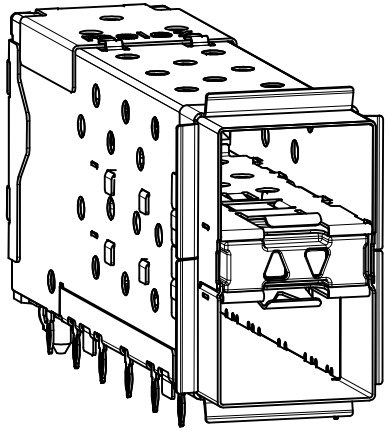
760900002 AND 760905002
WITH INNER LIGHT PIPES



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



760900003 AND 760905003
WITH OUTER LIGHT PIPES



760903002
WITH INNER LIGHT PIPES
& ENHANCED EMI MID-SECTION

SEE SHEET 1
EC NO: 2009/08/28
DRWN: JKACHLIC 2009/11/05
CH'KD:
APPR: MBANAKIS 2009/11/06
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽C=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
SCALE: 3:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	J JANTELEZIO	DATE 01-18-2007
CHECKED BY	MSANDBERG	DATE 01-18-2007
APPROVED BY	KREGNIER	DATE 01-18-2007

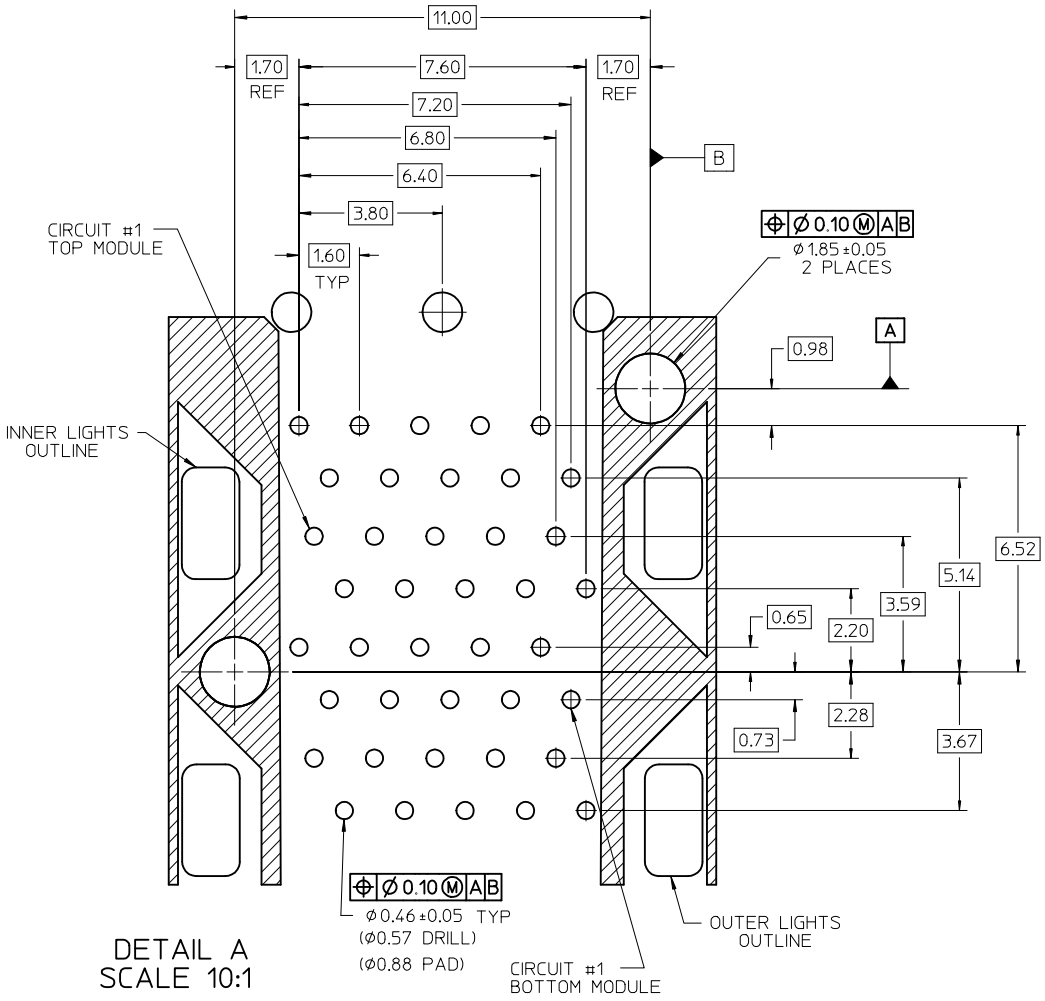
TITLE: STACKED SFP+ 2X1 ASS'Y WITH ELASTOMERIC GASKET AND LIGHTPIPES

MOLEX INCORPORATED

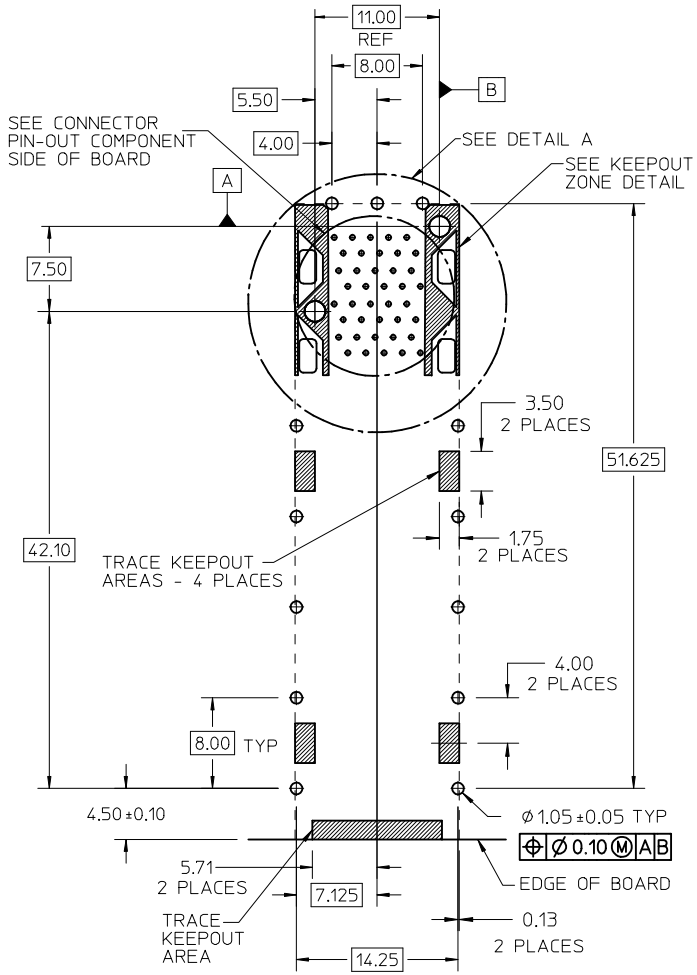
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-76090-001
SHEET NO.: 2 OF 4

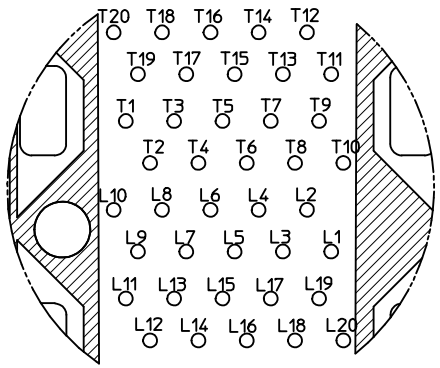
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DETAIL A
SCALE 10:1





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 KEEP OUT AREA FOR COMPONENTS
(OTHER THAN LIGHT PIPE LED'S)
THIS AREA IS INDICATED BY THE DASHED LINE

REV	DESCRIPTION	
T1	ADD KEEP OUT ZONES	2009/08/28
	EC NO:	2009/11/05
	DRWN: JKACHLIC	
	CHKD:	2009/11/06
	APPR: MBANAKIS	

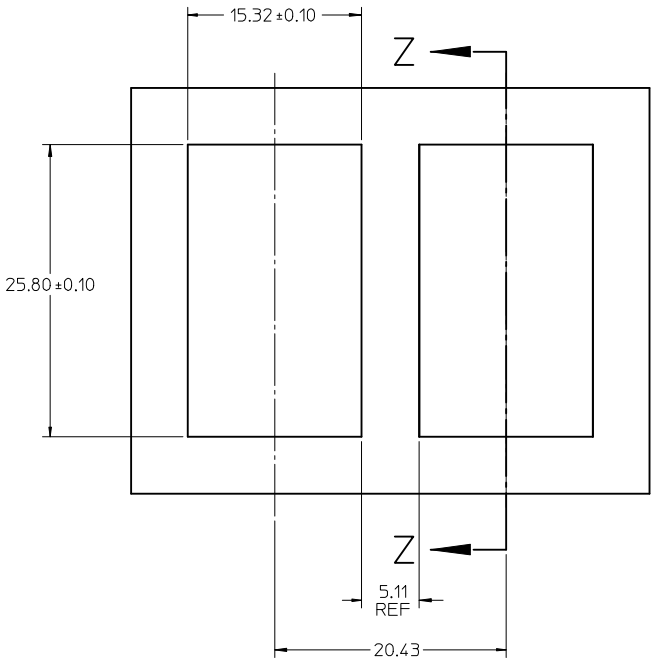
QUALITY SYMBOLS
▼=0
▽=C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 5 °		

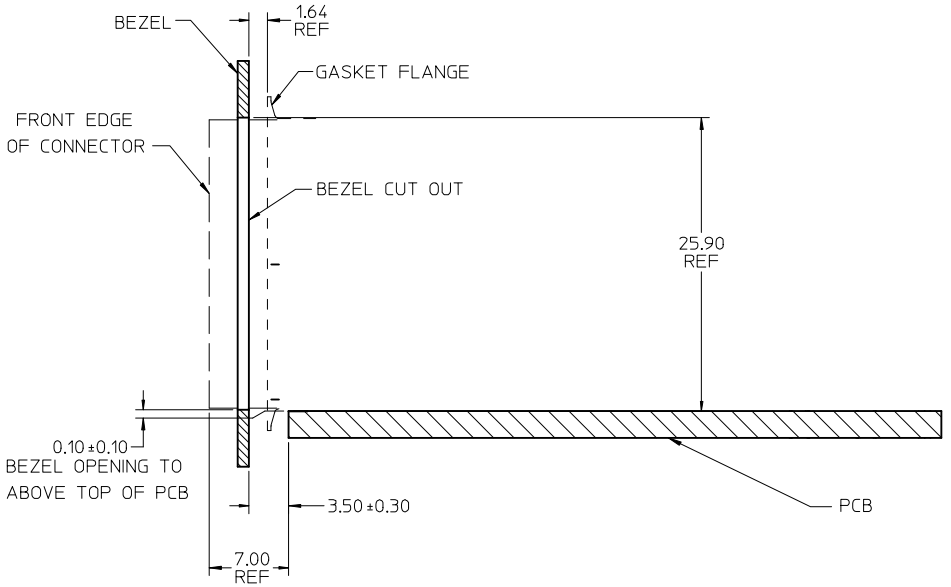
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	3:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	J JANTELEZIO 01-18-2007
CHECKED BY / DATE	MSANDBERG 01-18-2007
APPROVED BY / DATE	KREGNIER 01-18-2007
MATERIAL NO.	SEE TABLE
TITLE	STACKED SFP+ 2X1 ASS'Y WITH ELASTOMERIC GASKET AND LIGHTPIPES
	MOLEX INCORPORATED
DOCUMENT NO.	SD-76090-001
SHEET NO.	3 OF 4
SIZE	C

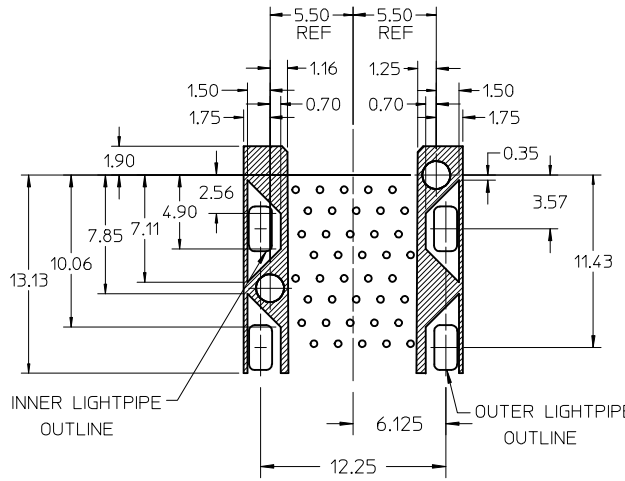
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BEZEL CUT-OUT CENTER SPACING DETAIL
BEZEL THICKNESS 0.8-2.6



SECTION Z-Z



DETAIL - LIGHT PIPE LOCATION AND OTHER ZONES
SCALE 4:1

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: 2009/08/28
DRWN: JKACHLIC 2009/11/05
CH'KD:
APPR: MBANAKIS 2009/11/06
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
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3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 5 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 3:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JJANTELEZIO DATE: 01-18-2007
CHECKED BY: MSANDBERG DATE: 01-18-2007
APPROVED BY: KREGNIER DATE: 01-18-2007
MATERIAL NO.: SEE TABLE

TITLE: STACKED SFP+ 2X1 ASS'Y WITH ELASTOMERIC GASKET AND LIGHTPIPES

MOLEX INCORPORATED

DOCUMENT NO.: SD-76090-001
SHEET NO.: 4 OF 4

SIZE: C

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