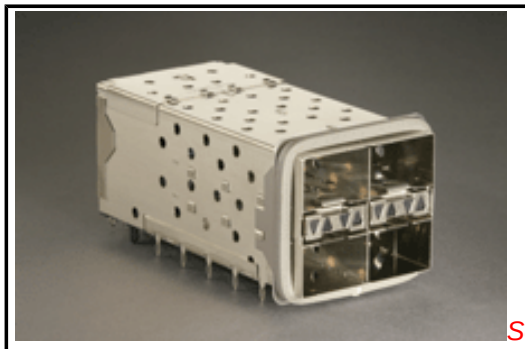
This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0760910002
Status: Active
Overview: sfp_stacked_multiport_connectors
Description: Small Form-factor Pluggable Plus (SFP+) Stacked 2-by-2 Multi-Port Connector with 2 Outer Lightpipe Ports, Elastomeric Gasket, 80 Circuits, Tin (Sn)/Lead(Pb) Tails



Series image - Reference only

Documents:

Drawing (PDF)
3D Model
Application Specification (PDF)
Test Summary (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	I/O Connectors
Series	76091
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)	80
Circuits (maximum)	80
Circuits Detail	80
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-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

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
76091Series

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 2	0622029970
SFP Stacked Multi-Port Extraction Tool, 2 by 2	0622029975

Plating min: Termination (µm)	0.76
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	4
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

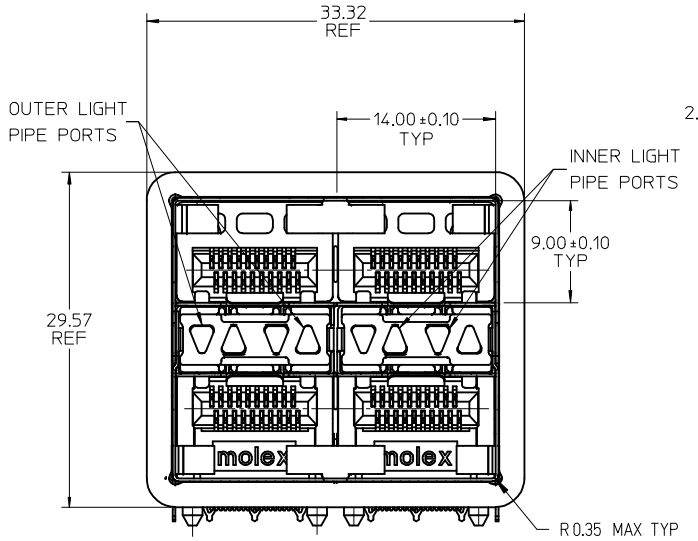
Reference - Drawing Numbers

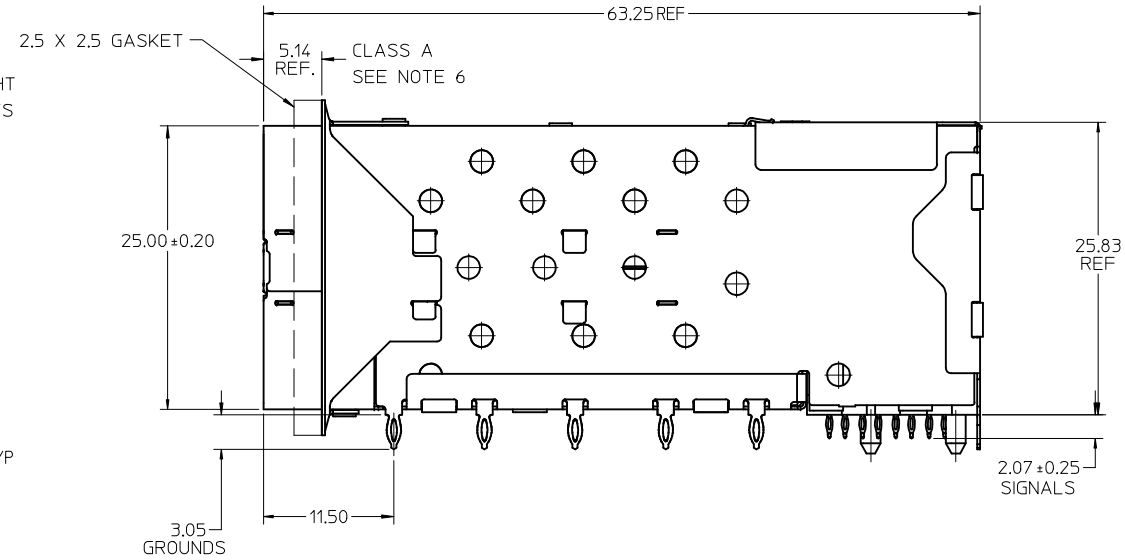
Application Specification	AS-76090-001
Packaging Specification	PK-75714-001
Sales Drawing	SD-76091-001

This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

PART NUMBER	DESCRIPTION	VIEW	COMPLIANT TAIL PLATING	CAGE PLATING
760910001	4 LIGHT PORTS	SEE PG 2	TIN / LEAD	N/A
760910002	INNER 2 PORTS	SEE PG 2	TIN / LEAD	N/A
760910003	OUTER 2 PORTS	SEE PG 2	TIN / LEAD	N/A
760915001	4 LIGHT PORTS	SEE PG 2	TIN	N/A
760915002	INNER 2 PORTS	SEE PG 2	TIN	N/A
760915003	OUTER 2 PORTS	SEE PG 2	TIN	N/A





NOTES

1. MATERIAL:
   - CAGE: NICKEL SILVER, THICKNESS: 0.25mm
   - CAGE FLANGE: STAINLESS STEEL
   - EMI GASKET: CONDUCTIVE POLYMER
   - CONNECTOR HOUSING: GLASS FILLED HIGH TEMP PLASTIC, 94 V-0 COLOR BLACK
   - OVERMOLDED TERMINALS HOUSING: GLASS FILLED HIGH TEMP PLASTIC, 94 V-0, COLOR: BLACK
   - TERMINALS: TIN BRASS
   - LIGHT PIPES: POLYCARBONITE, 94 V-0, COLOR: CLEAR
   - LIGHT PIPE HOUSING: ZINC
2. FINISH:
   - LIGHT PIPE HOUSING: 150 MICRONS NICKEL OVER 150 MICRONS COPPER
   - TERMINAL: 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 PRODECT 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-75714-001 FOR ALL PACKAGING SPECIFICATIONS.
6. ALL EXTERIOR SURFACES TO BE A 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.

ADD KEEP-OUT ZONES
EC NO: UCP2009-1356
DRWN:MSIBARRA 2009/08/04
CHKD:BBARKER 2009/08/06
APPR:SMILLER 2009/08/06
DESCRIPTION
REV

QUALITY SYMBOLS
A=0
B=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

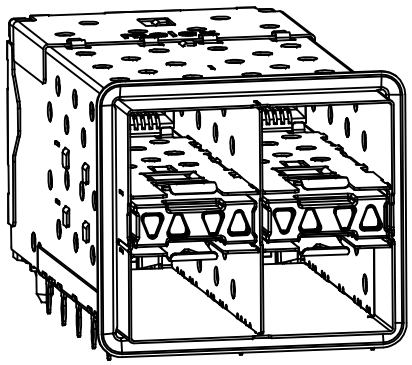
		DATE
DRAWN BY	J JANTELEZIO	01-18-2007
CHECKED BY	MSANDBERG	01-18-2007
APPROVED BY	RNELSON	01-18-2007

TITLE: STACKED SFP+ 2X2 ASSY WITH ELASTOMERIC GASKET AND LIGHTPIPES

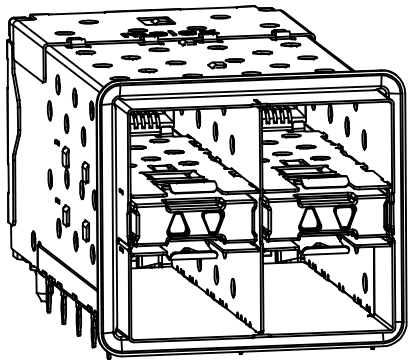
molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-76091-001
SHEET NO.: 1 OF 4
SIZE: C

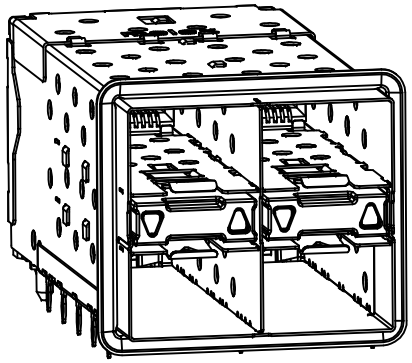
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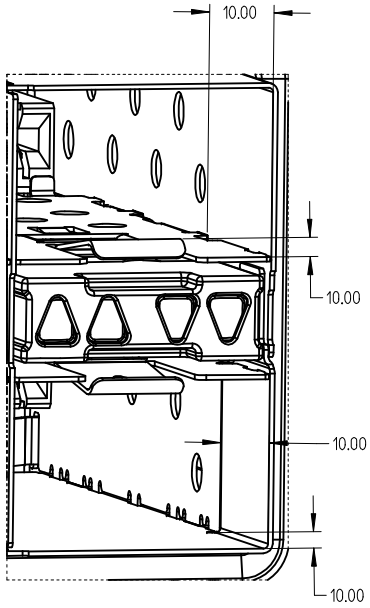
760910001 & 760915001
WITH INNER & OUTER LIGHT PIPE PORTS



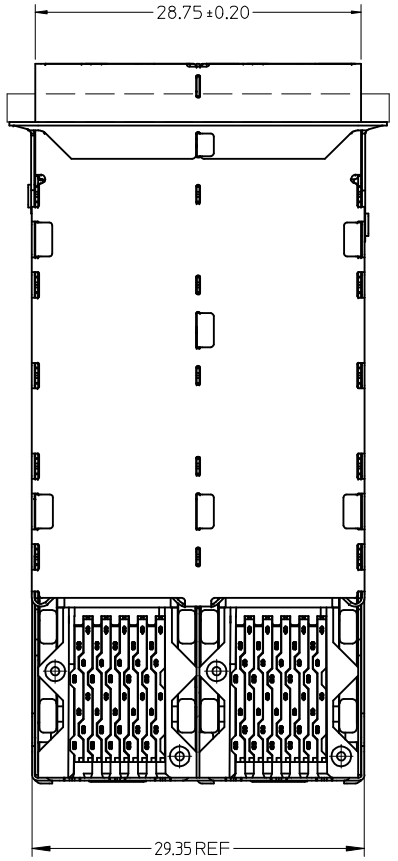
760910002 & 760915002
WITH INNER LIGHT PIPE PORTS



760910003 & 760915003
WITH OUTER LIGHT PIPE PORTS



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



SEE SHEET 1
EC NO: UCP2009-1356
DRWN:MSIBARRA 2009/08/04
CHKD:BBARKER 2009/08/06
APPR:SMILLER 2009/08/06
DESCRIPTION
REV

QUALITY SYMBOLS
=0
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
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DESIGN UNITS: METRIC
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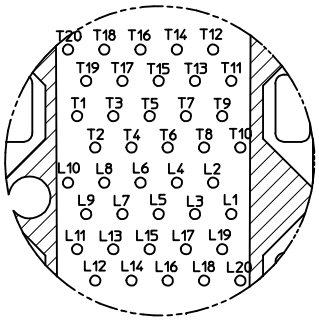
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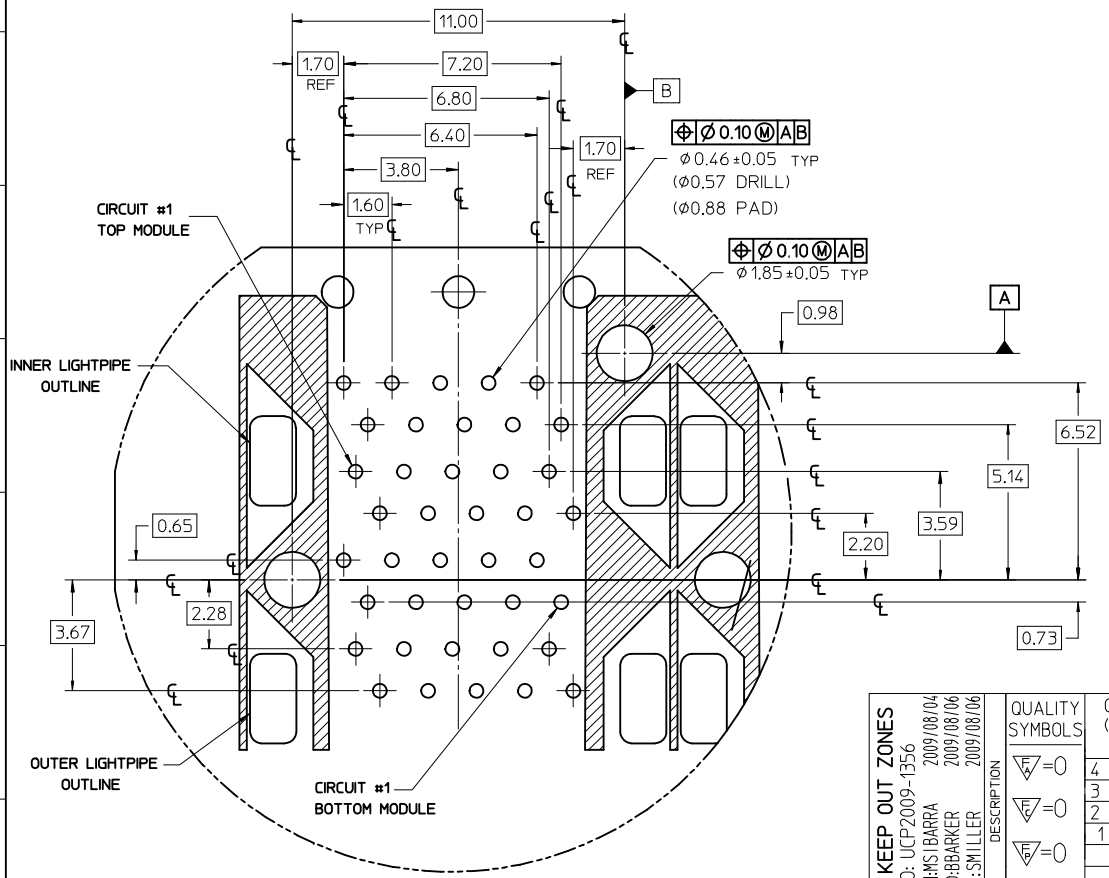
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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-76091-001
SHEET NO.: 2 OF 4
SIZE: C

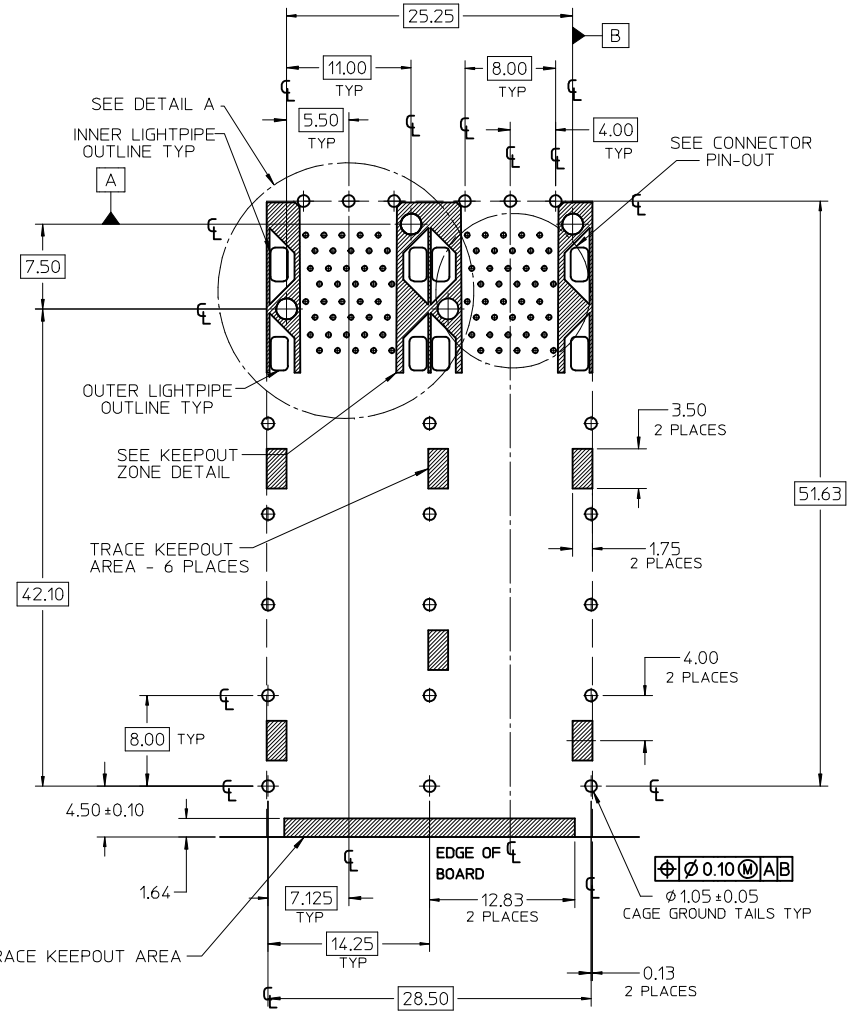
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CONNECTOR PIN-OUT
COMPONENT SIDE OF BOARD



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

ADD KEEP OUT ZONES
EC NO: UCP2009-1356 2009/08/04
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APPR:SMILLER 2009/08/06
DESCRIPTION
REV

QUALITY SYMBOLS
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E =0
E =0

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ANGULAR ± 5 °		

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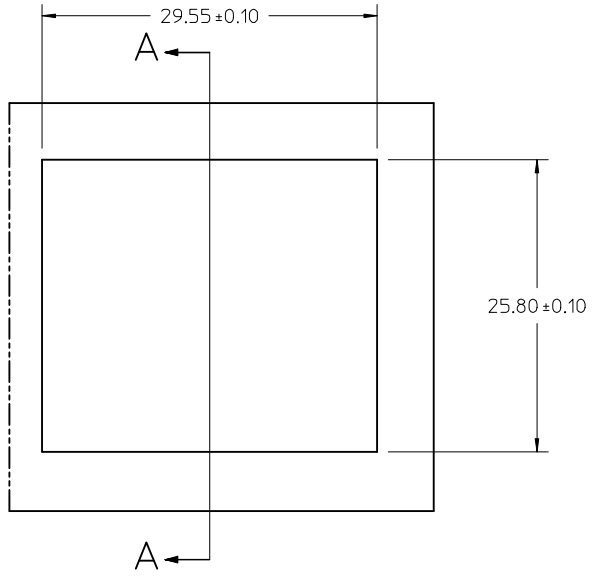
	DRAWN BY	DATE
	J JANTELEZIO	01-18-2007
	CHECKED BY	DATE
	MSANDBERG	01-18-2007
	APPROVED BY	DATE
	RNELSON	01-18-2007

TITLE: STACKED SFP+ 2X2 ASSY WITH ELASTOMERIC GASKET AND LIGHTPIPES

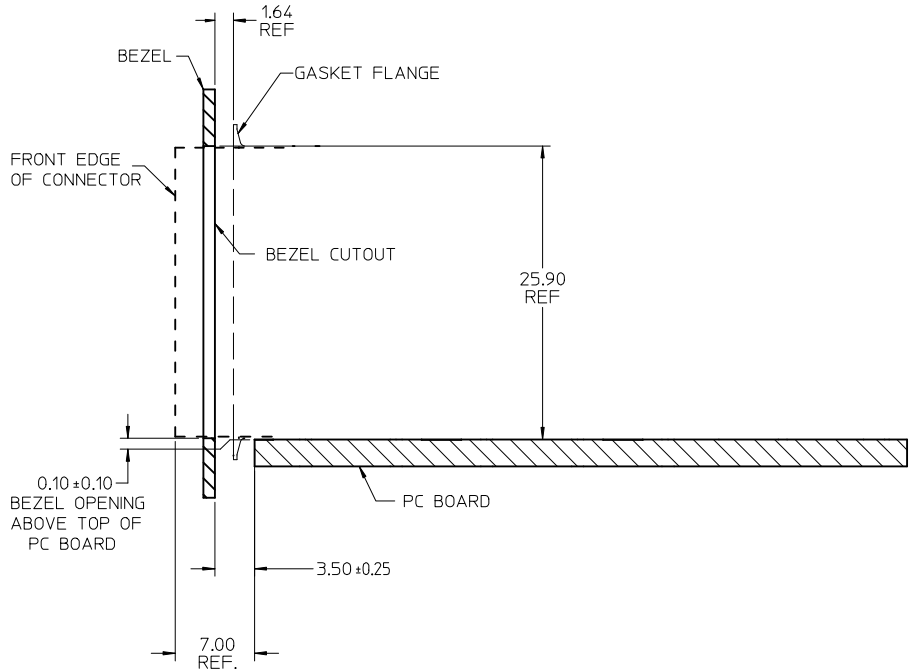
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DOCUMENT NO.: SD-76091-001
SHEET NO.: 3 OF 4
SIZE: C

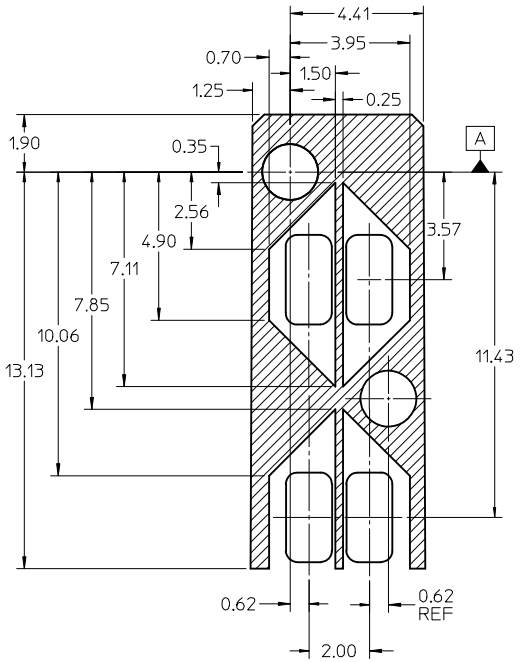
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BEZEL CUT-OUT CENTER SPACING DETAIL
BEZEL THICKNESS: 0.8 - 2.6



SECTION A-A



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

SEE SHEET 1
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CHKD:BBARKER 2009/08/06
APPR:SMILLER 2009/08/06
DESCRIPTION
REV

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E=0
E=0

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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
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TITLE: STACKED SFP+ 2X2 ASSY WITH ELASTOMERIC GASKET AND LIGHTPIPES

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SHEET NO.: 4 OF 4
SIZE: C

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