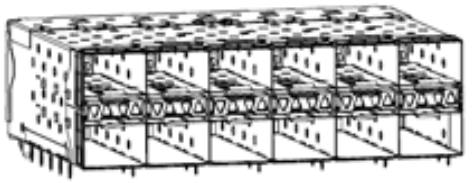
This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0760480001
Status: Active
Overview: sfp_stacked_multiport_connectors
Description: Small Form-factor Pluggable Plus (SFP+) Stacked 2-by-6 Multi-Port Connector with 4 Lightpipe Ports, EMI Metal Gasket, 240 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	LR19980
UL	E29179

General

Product Family	I/O Connectors
Series	76048
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)	240
Circuits (maximum)	240
Circuits Detail	240
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
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
76048Series

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 6	0622029925
SFP Stacked Multi-Port Extraction Tool, 2 by 6	0622029950

Plating min: Termination (µm)	0.76
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	12
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Through Hole - Compliant Pin
Waterproof / Dustproof	No

Electrical

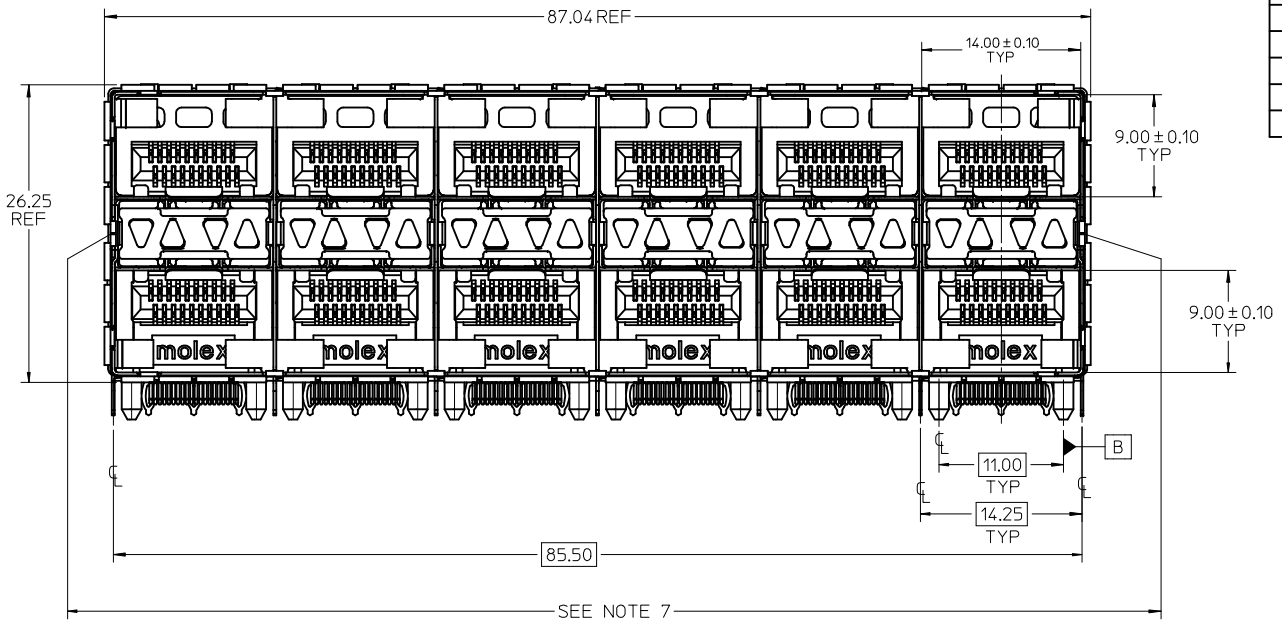
Current - Maximum per Contact	0.5A
Grounding to Panel	None
Shield Type	EMI Gasket
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC

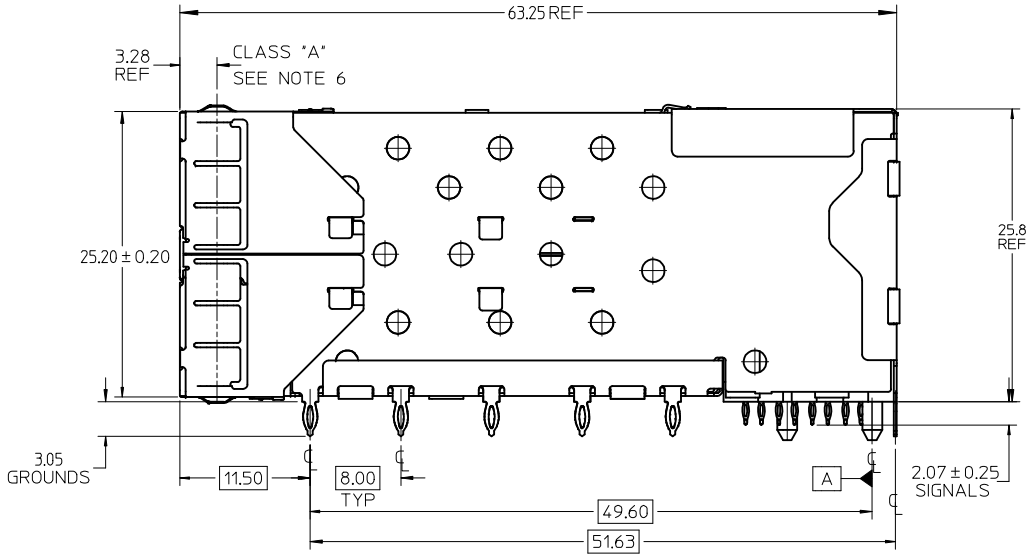
Material Info

Reference - Drawing Numbers

Application Specification	AS-76090-001
Packaging Specification	PK-75451-001
Product Specification	PS-75310-001
Sales Drawing	SD-76048-001
Test Summary	TS-75310-001

PART NUMBER	DESCRIPTION	VIEW	COMPLIANT TAIL PLATING
760480001	4 LIGHT PORTS	SEE PG 2	TIN / LEAD
760480002	INNER 2 PORTS	SEE PG 2	TIN / LEAD
760480003	OUTER 2 PORTS	SEE PG 2	TIN / LEAD
760485001	4 LIGHT PORTS	SEE PG 2	TIN
760485002	INNER 2 PORTS	SEE PG 2	TIN
760485003	OUTER 2 PORTS	SEE PG 2	TIN





NOTES:
1. MATERIAL:
   CAGE: NICKEL SILVER, THICKNESS: 0.25mm
   EMI GASKET: PHOS-BRONZE
   CONNECTOR HOUSING: GLASS FILLED THERMOPLASTIC, UL: 94 V-0,
   COLOR: BLACK
   OVERMOLD TERMINAL HOUSING: GLASS FILLED THERMOPLASTIC.
   UL: 94 V-0, COLOR: BLACK
   TERMINALS: BRASS
   LIGHT PIPE: POLYCARBONATE UL 94 V-0, COLOR CLEAR
   LIGHT PIPE HOUSING: ZINC
2. FINISH
   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
   EMI GASKET: 2.54 MICRONS NICKEL OVERALL
   LIGHT PIPE HOUSING: 150 MICRONS NICKEL OVER 150 MICRONS COPPER
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-75451-001 FOR ALL PACKAGING SPECIFICATIONS.
6. ALL EXTERIOR SURFACES TO BE CLASS "B' SURFACES 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: 86.30+/-0.30 MM. THIS PORTION OF THE CAGE WILL FLEX INWARD AS THE CAGE IS BEING INSERTED INTO THE BEZEL OPENING.

ADD NOTE 7/KEEPOUTS 2009/01/07
EC NO: UCP2009-1582
DRWN:MSIBARRA 2009/01/09
CH'KD:BBARKER 2009/01/12
APPR:SMILLER
DESCRIPTION
REV: C

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

		DATE
DRAWN BY	MSANDBERG	09/28/2006
CHECKED BY	JLONG	09/28/2006
APPROVED BY	KREGNIER	09/28/2006

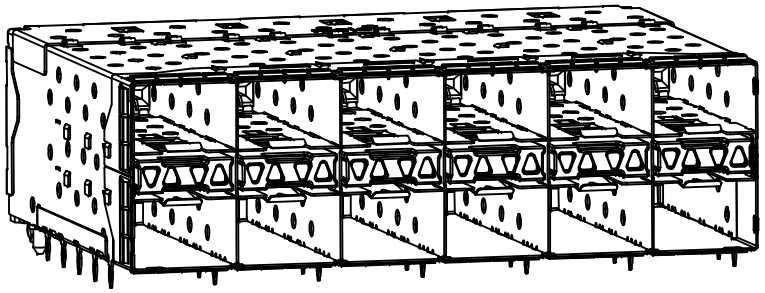
TITLE: STACKED SFP+ 2X6 ASSY WITH METAL EMI GASKET AND LIGHTPIPES

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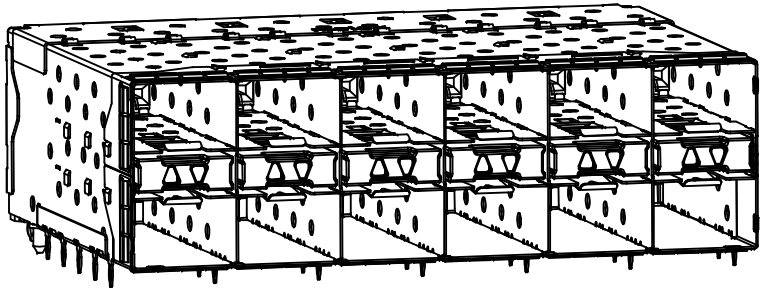
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DOCUMENT NO.: SD-76048-001
SHEET NO.: 1 OF 4

SIZE: C

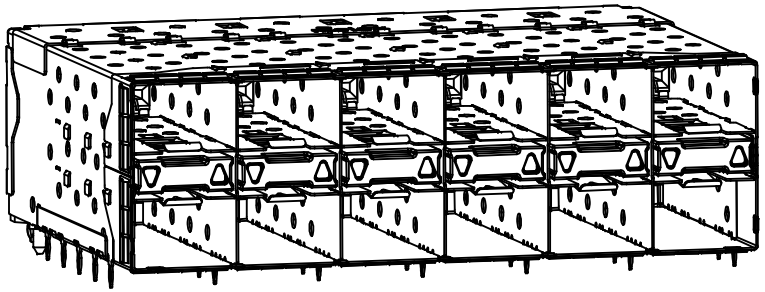
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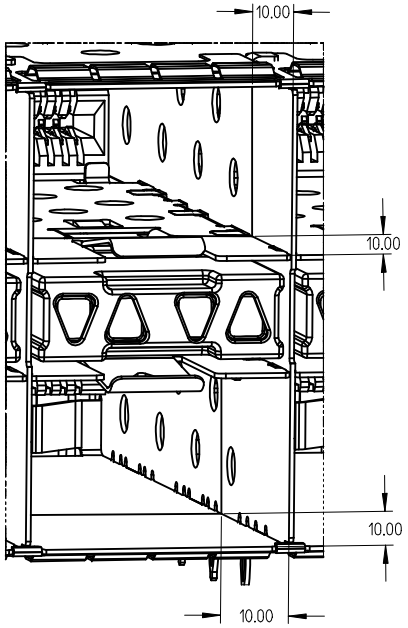
760480001 AND 760485001
WITH INNER AND OUTER LIGHT PIPES



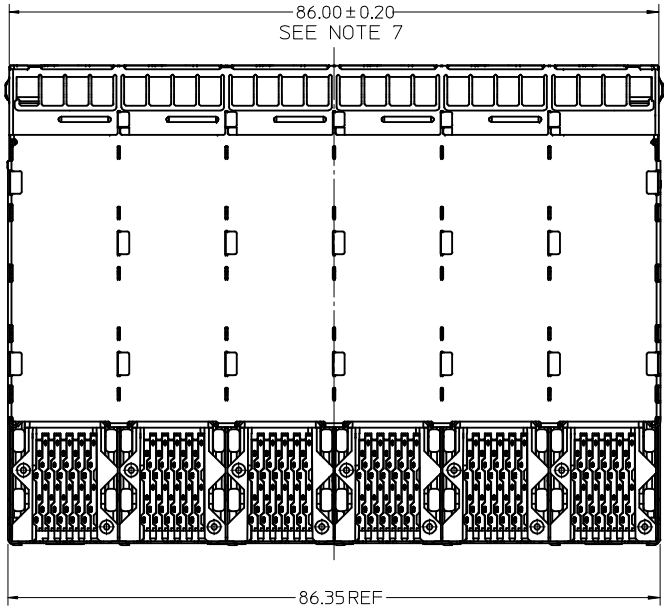
760480002 AND 760485002
WITH INNER LIGHT PIPES



760480003 AND 760485003
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 PORT)



SEE SHEET 1
EC NO: UCP2009-1582
DRWN:MSJBARRA 2009/01/07
CH'KD:BBARKER 2009/01/09
APPR:SMILLER 2009/01/12
DESCRIPTION
REV
C

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: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

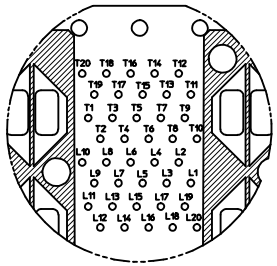
		DATE
DRAWN BY	MSANDBERG	09/28/2006
CHECKED BY	JLONG	09/28/2006
APPROVED BY	KREGNIER	09/28/2006

TITLE: STACKED SFP+ 2X6 ASSY WITH METAL EMI GASKET AND LIGHTPIPES

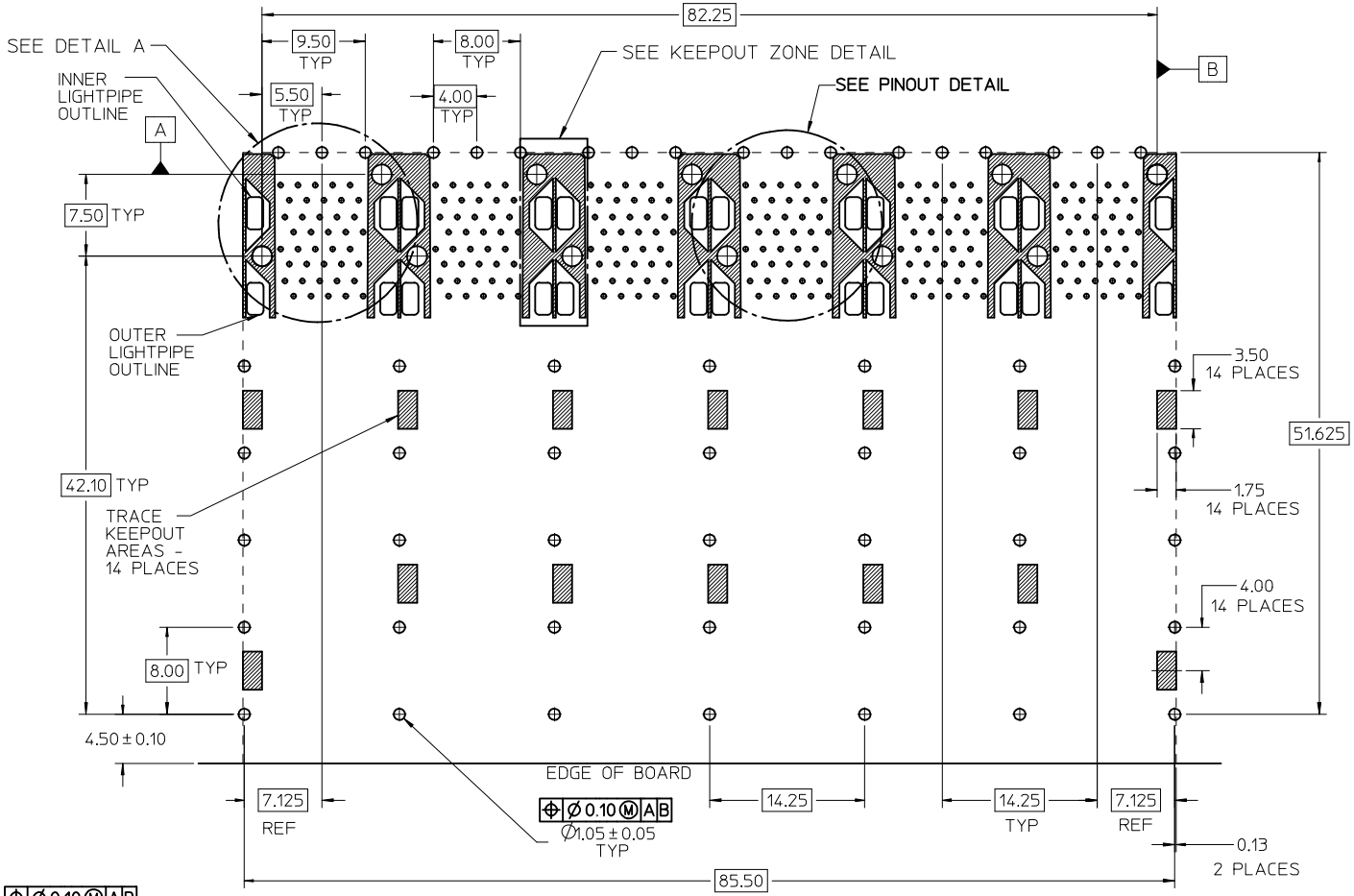
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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-76048-001
SHEET NO.: 2 OF 4
SIZE: C

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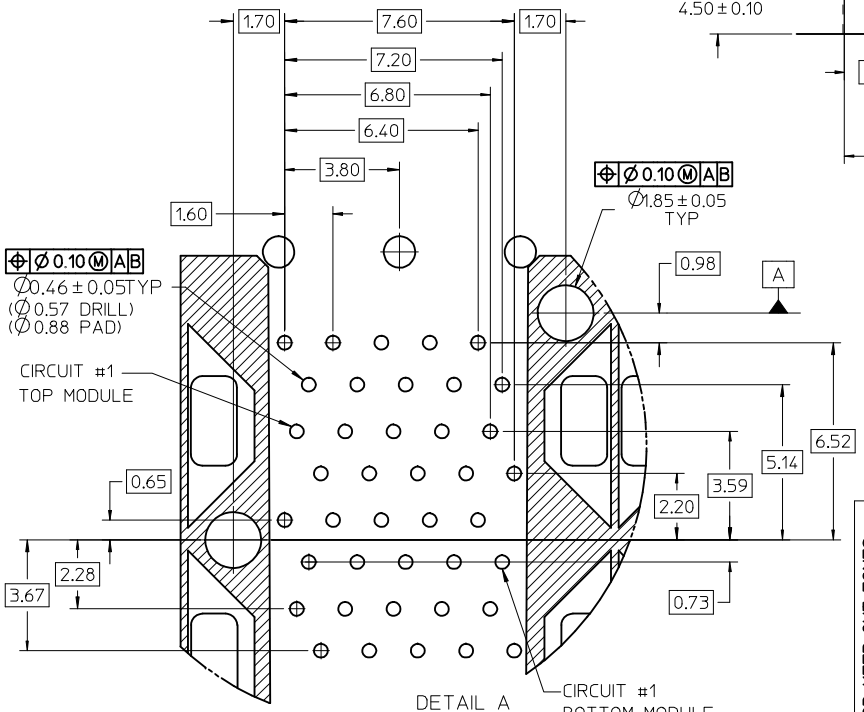


CONNECTOR PIN-OUT DETAIL
COMPONENT SIDE OF BOARD



RECOMMENDED PCB LAYOUT - COMPONENT SIDE
RECOMMENDED PCB THICKNESS - 2.63 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



DETAIL A
SCALE 8:1

ADD KEEP OUT ZONES
EC NO: UCP2009-1582
DRWN:MS BARRA 2009/01/07
CH'KD:BBARKER 2009/01/09
APPR:SMILLER 2009/01/12
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

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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	MSANDBERG
DATE	09/28/2006
CHECKED BY	JLONG
DATE	09/28/2006
APPROVED BY	KREGNIER
DATE	09/28/2006
MATERIAL NO.	SEE TABLE

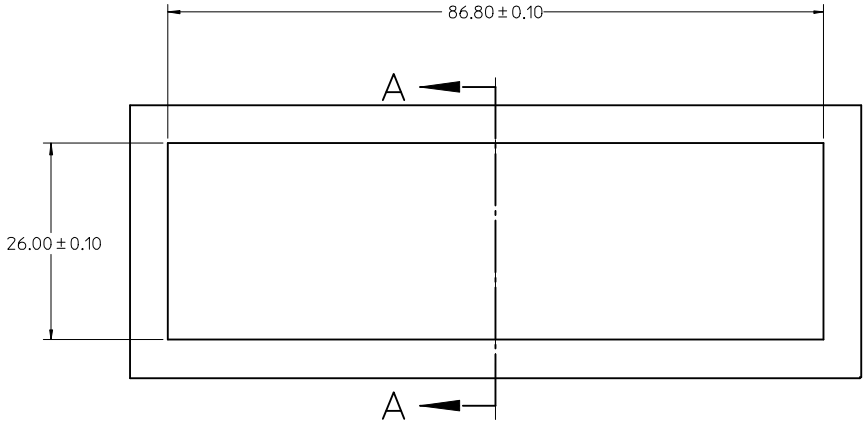
TITLE
STACKED SFP+ 2X6 ASSY WITH METAL EMI GASKET AND LIGHTPIPES

molex MOLEX INCORPORATED

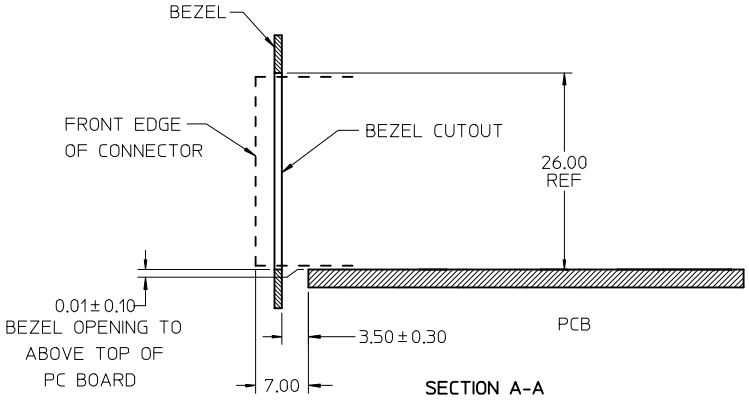
DOCUMENT NO. SD-76048-001
SHEET NO. 3 OF 4

SIZE C

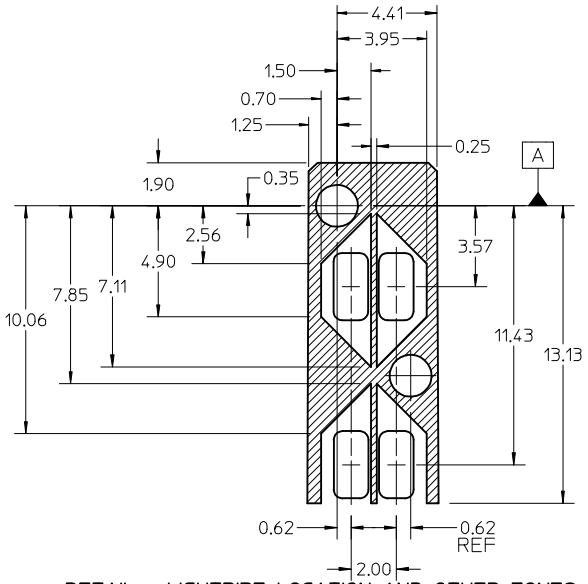
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BEZEL CUTOUT CENTER SPACING DETAIL
BEZEL THICKNESS 0.8 - 2.6



SECTION A-A



DETAIL - LIGHTPIPE LOCATION AND OTHER ZONES
SCALE 6:1
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 2009/01/07
DRWN:MSIBARRA 2009/01/09
CH'KD:BBARKER 2009/01/12
APPR:SMILLER
DESCRIPTION
REV
C

QUALITY SYMBOLS
▼=0
▽C=0

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3 PLACES	± ---	± ---
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1 PLACE	± 0.25	± ---
ANGULAR ± 5 °		

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DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	MSANDBERG	09/28/2006
CHECKED BY	JLONG	09/28/2006
APPROVED BY	KREGNIER	09/28/2006

TITLE: STACKED SFP+ 2X6 ASSY WITH METAL EMI GASKET AND LIGHTPIPES

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-76048-001
SHEET NO.: 4 OF 4
SIZE: C

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