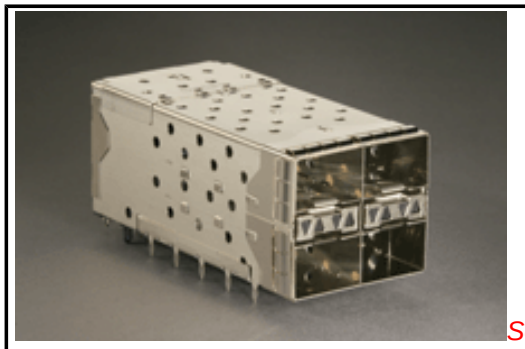
This document was generated on 05/28/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0760450003
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, EMI Metal Gasket, 80 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	76045
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
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
76045Series

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
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Through Hole - Compliant Pin
Waterproof / Dustproof	No

Electrical

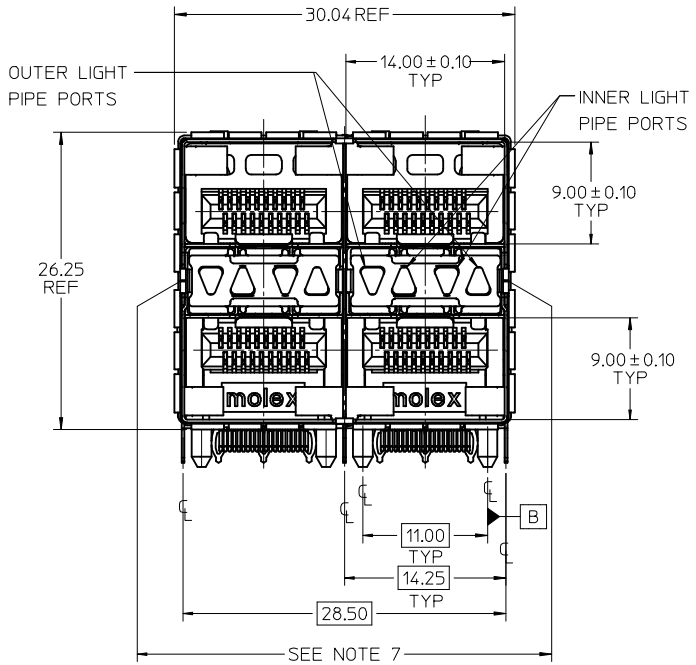
Current - Maximum per Contact	0.5A
Grounding to Panel	None
Shield Type	EMI Gasket
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC

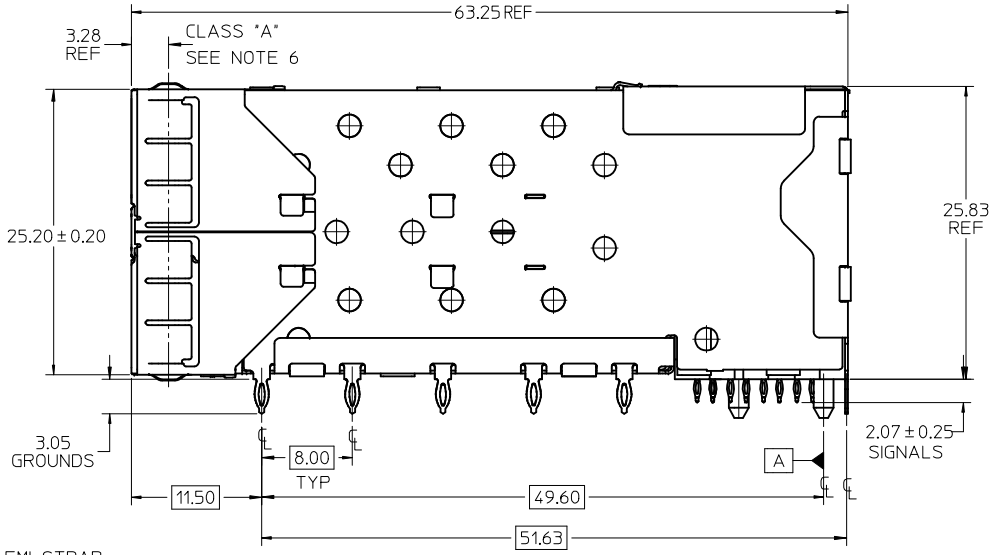
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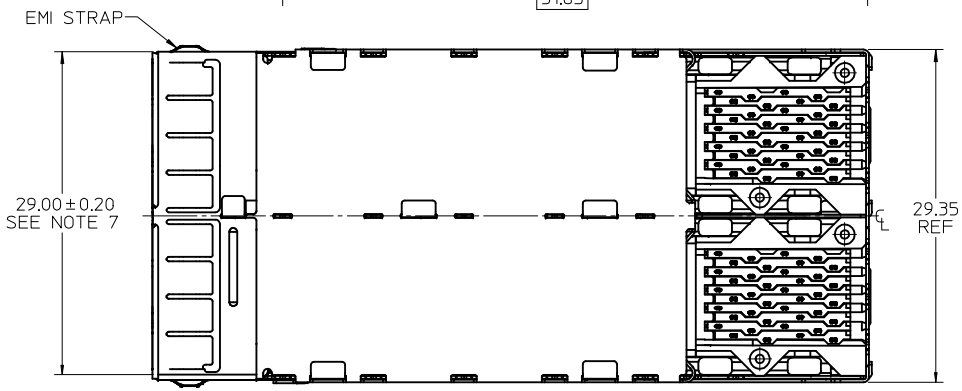
Reference - Drawing Numbers

Application Specification	AS-75310-001, AS-76090-001
Packaging Specification	PK-75714-001
Product Specification	PS-75310-001
Sales Drawing	SD-76045-001
Test Summary	TS-75310-001

PART NUMBER	DESCRIPTION	VIEW	COMPLIANT TAIL PLATING
760450001	4 LIGHT PORTS	SEE PG 2	TIN / LEAD
760450002	INNER 2 PORTS	SEE PG 2	TIN / LEAD
760450003	OUTER 2 PORTS	SEE PG 2	TIN / LEAD
760455001	4 LIGHT PORTS	SEE PG 2	TIN
760455002	INNER 2 PORTS	SEE PG 2	TIN
760455003	OUTER 2 PORTS	SEE PG 2	TIN







NOTES
1. MATERIAL:
   CAGE: NICKEL SILVER, THICKNESS: 0.25mm
   EMI GASKET: PHOS-BRONZE
   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
   EMI GASKET: 2.54 MICRONS NICKEL OVERALL
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-75714-001 FOR ALL PACKAGING SPECIFICATIONS.
6. 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.
7. THE OVERALL CAGE WIDTH AT THE VERTICAL CENTER OF THE FRONT EDGE WILL FALL WITHIN THIS DIMENSION: 29.30+/-0.30 MM. THIS PORTION OF THE CAGE WILL FLEX INWARD AS THE CAGE IS BEING INSERTED INTO THE BEZEL OPENING.

ADD NOTE 7/KEEPOUT'S 2009/01/07
EC NO: UCP2009-1582 2009/01/09
DRWN:MSIBARRA CHKD:BBARKER 2009/01/12
APPR:SMILLER
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

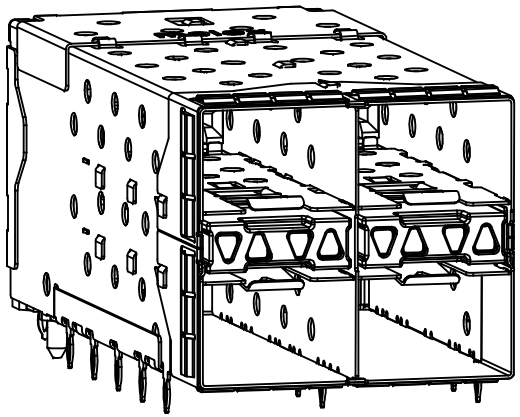
DRAWN BY	MSANDBERG	DATE 10-16-06
CHECKED BY	JLONG	DATE 10-16-06
APPROVED BY	RNELSON	DATE 10-16-06

TITLE: STACKED SFP+ 2X2 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES

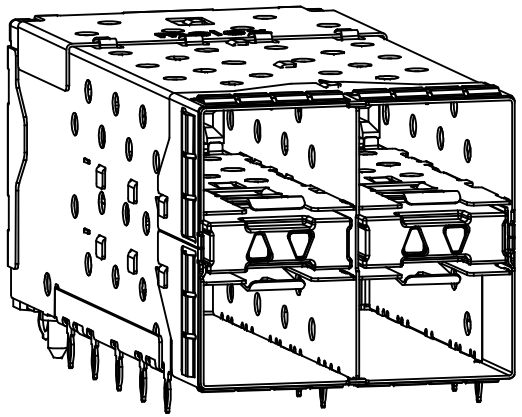
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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-76045-001
SHEET NO.: 1 OF 4
SIZE: C

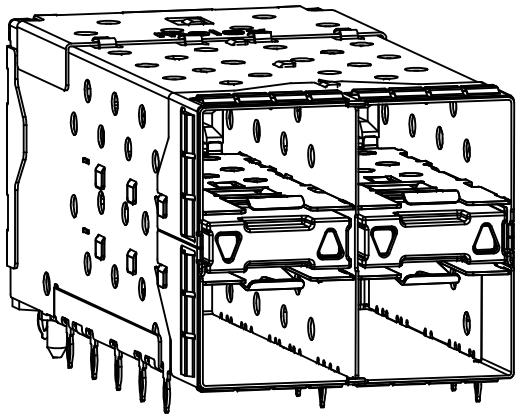
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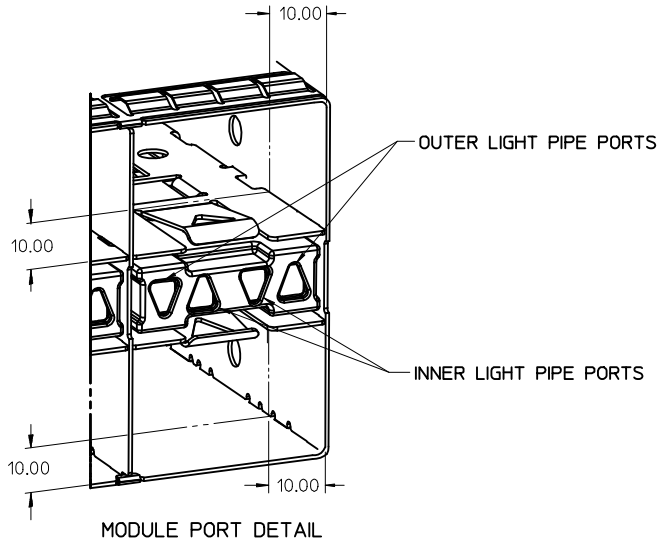
760450001 AND 760455001
WITH INNER AND OUTER LIGHT PIPES



760450002 AND 760455002
WITH INNER LIGHT PIPES



760450003 AND 760455003
WITH OUTER LIGHT PIPES



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

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

		DATE
DRAWN BY	MSANDBERG	10-16-06
CHECKED BY	JLONG	10-16-06
APPROVED BY	RNELSON	10-16-06

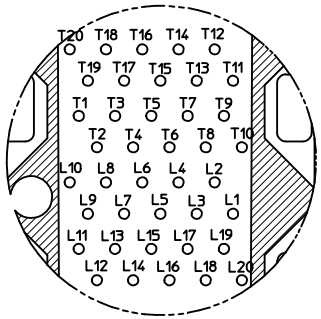
TITLE: STACKED SFP+ 2X2 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES

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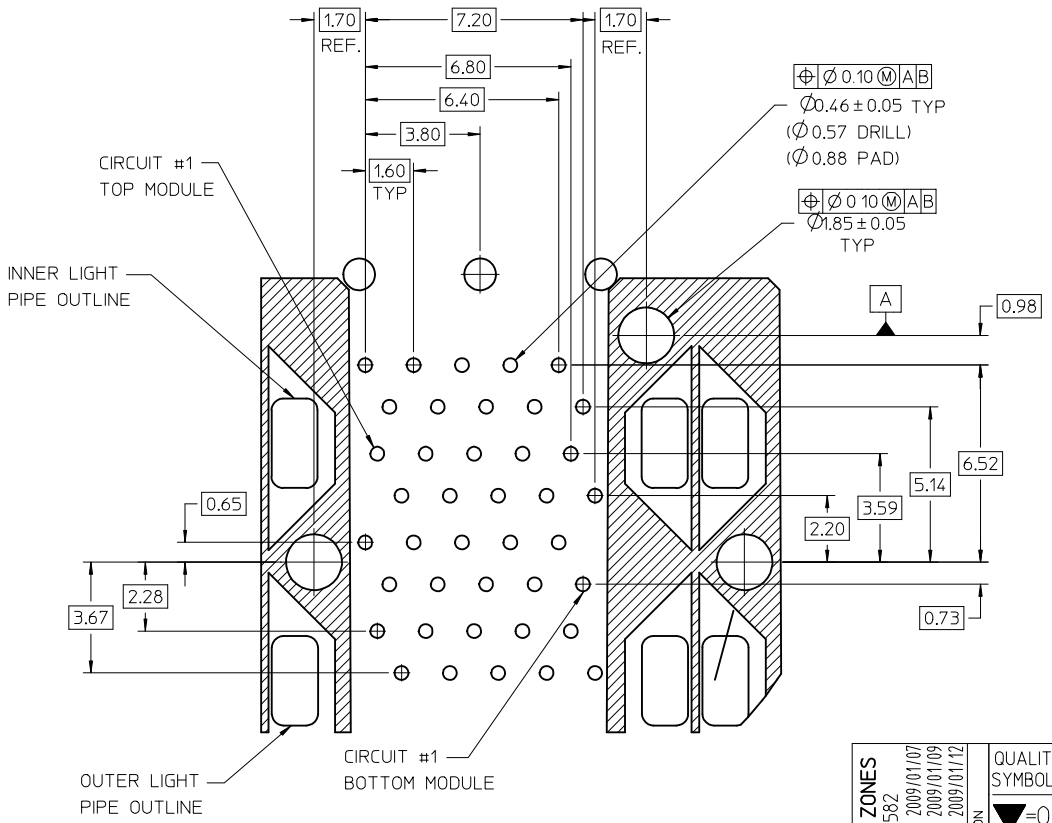
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-76045-001
SHEET NO.: 2 OF 4
SIZE: C

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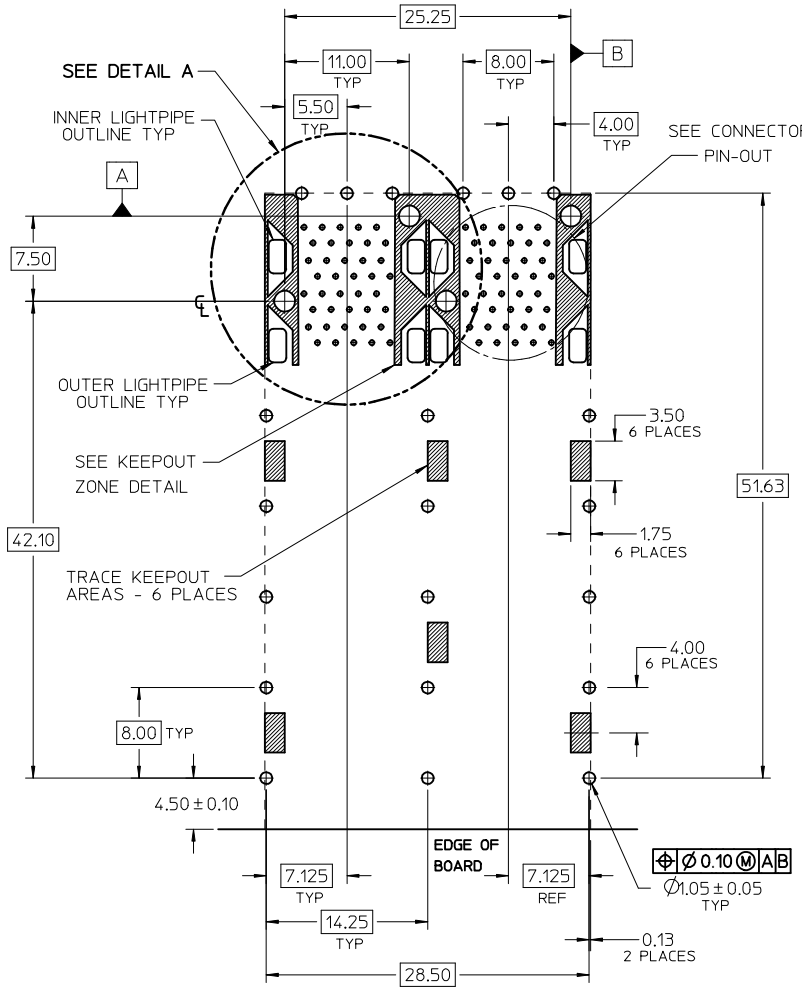
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Rev. D 2004/06/28



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

ADD KEEP OUT ZONES
EC NO: UCP2009-1582
DRWN:MSIBARRA 2009/01/07
CHKD:BBARKER 2009/01/09
APPR:SMILLER 2009/01/12
DESCRIPTION
REV

QUALITY SYMBOLS
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▽(C)=0

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DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

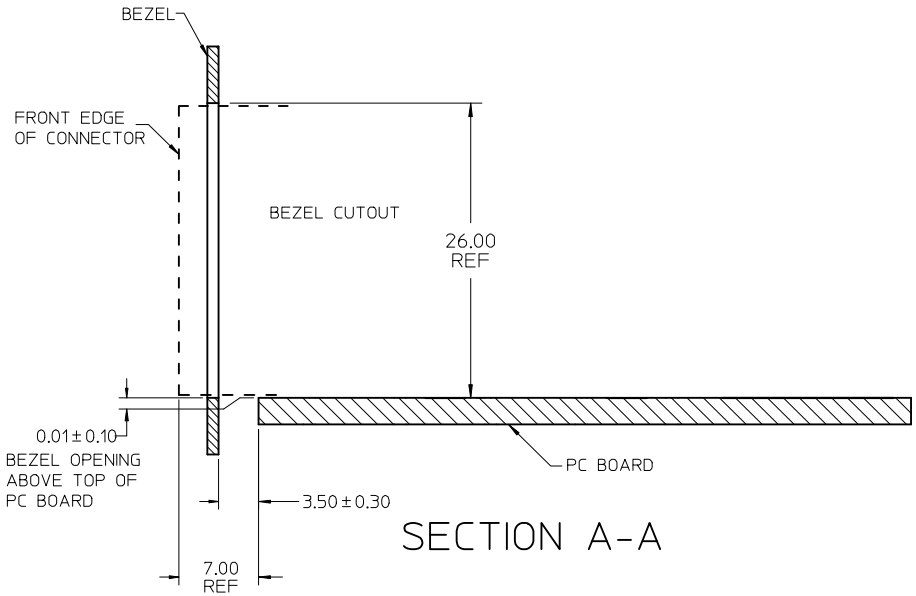
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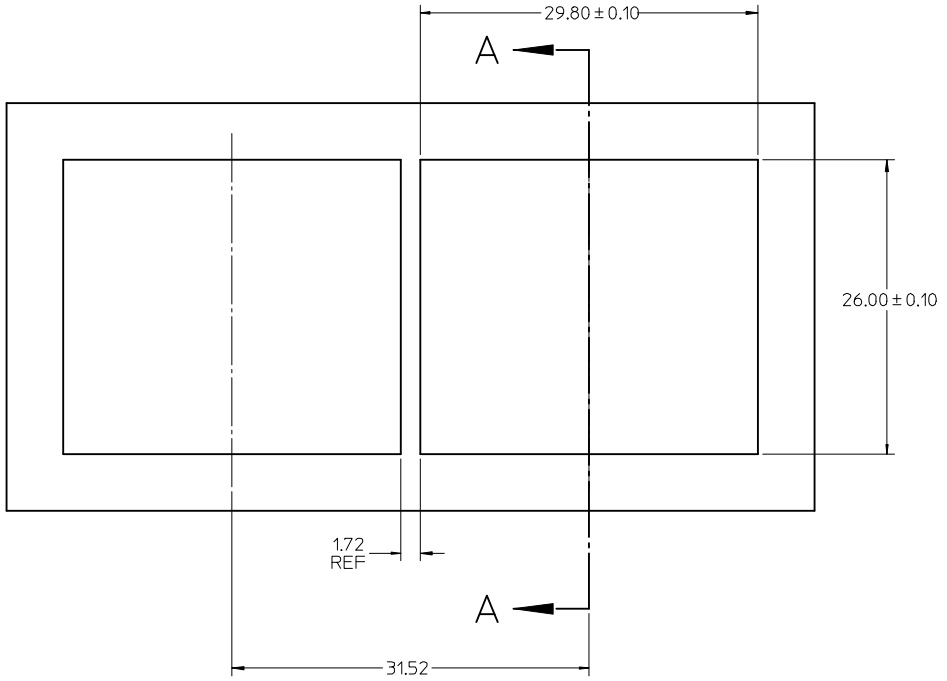
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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-76045-001
SHEET NO.: 3 OF 4
SIZE: C

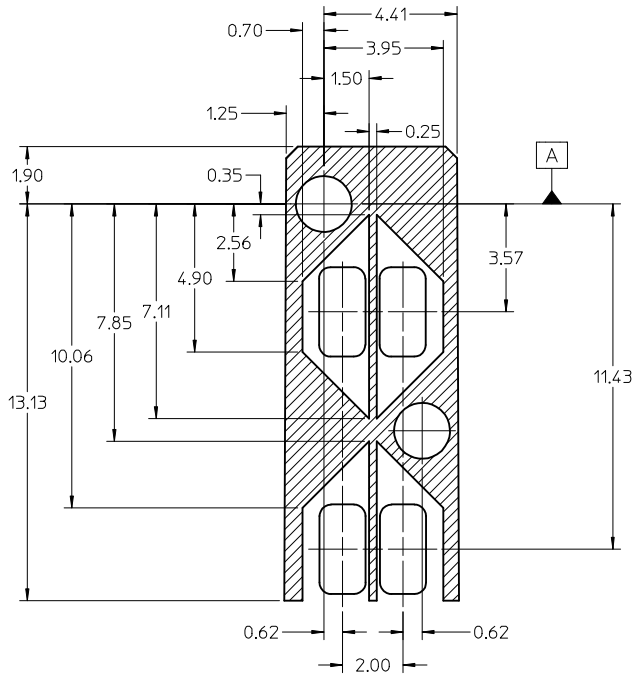
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SECTION A-A



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



DETAIL - LIGHT PIPE 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
EC NO: UCP2009-1582
DRWN: MSIBARRA 2009/01/07
CHKD: BBARKER 2009/01/09
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REV

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

DRAWN BY: MSANDBERG DATE: 10-16-06
CHECKED BY: JLONG DATE: 10-16-06
APPROVED BY: RNELSON DATE: 10-16-06
MATERIAL NO.: SEE CHART

TITLE: STACKED SFP+ 2X2 ASS'Y WITH METAL EMI GASKET AND LIGHTPIPES

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DOCUMENT NO.: SD-76045-001
SHEET NO.: 4 OF 4
SIZE: C

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