



产品编号：760915002

系列号：76091

Product Category：High-Speed I/O
Connectors

Product Description：Small Form-factor
Pluggable Plus (SFP+) Stacked 2-by-2
Multi-Port Connector with 2 Inner
Lightpipe Ports, Elastomeric Gasket, 80
Circuits, Tin (Sn) Tails

状态：Active

文件和资源

图纸

图纸 760915002_sd.pdf

3D 模型和设计文件

3D模型 760915002_stp.zip

电气模型文件 EE-76090-001-001.pdf

S参数 SP-76090-001-001.zip

规格

应用规格 AS-75310-001-001.pdf

应用规格 AS-76090-001-001.pdf

包装规格 PK-75714-001-001.pdf

产品规格 PS-75310-001-001.pdf

测试摘要 TS-76092-999-001.pdf

产物环境合规

合规

GADSL/IMDS	Not Relevant
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2023)8585-DC (23 Jan 2024)
EU RoHS	Compliant per EU 2015/863

多部分产品合规性声明

- Eu RoHS

- REACH SVHC

- Low-Halogen
- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

欧盟 RoHS 合格证书

产品详情

常规

状态	活动
类别	高速连接器
系列	76091
说明	Small Form-factor Pluggable Plus (SFP+) Stacked 2-by-2 Multi-Port Connector with 2 Inner Lightpipe Ports, Elastomeric Gasket, 80 Circuits, Tin (Sn) Tails
应用	Module-to-Board
元件类型	Receptacle
产品系列	SFP+ and SFP Interconnect Solutions
产品名称	SFP Plus, SFP+
类型	Pluggable
UPC	800756878072

机构

CSA	LR19980
UL	E29179

电气

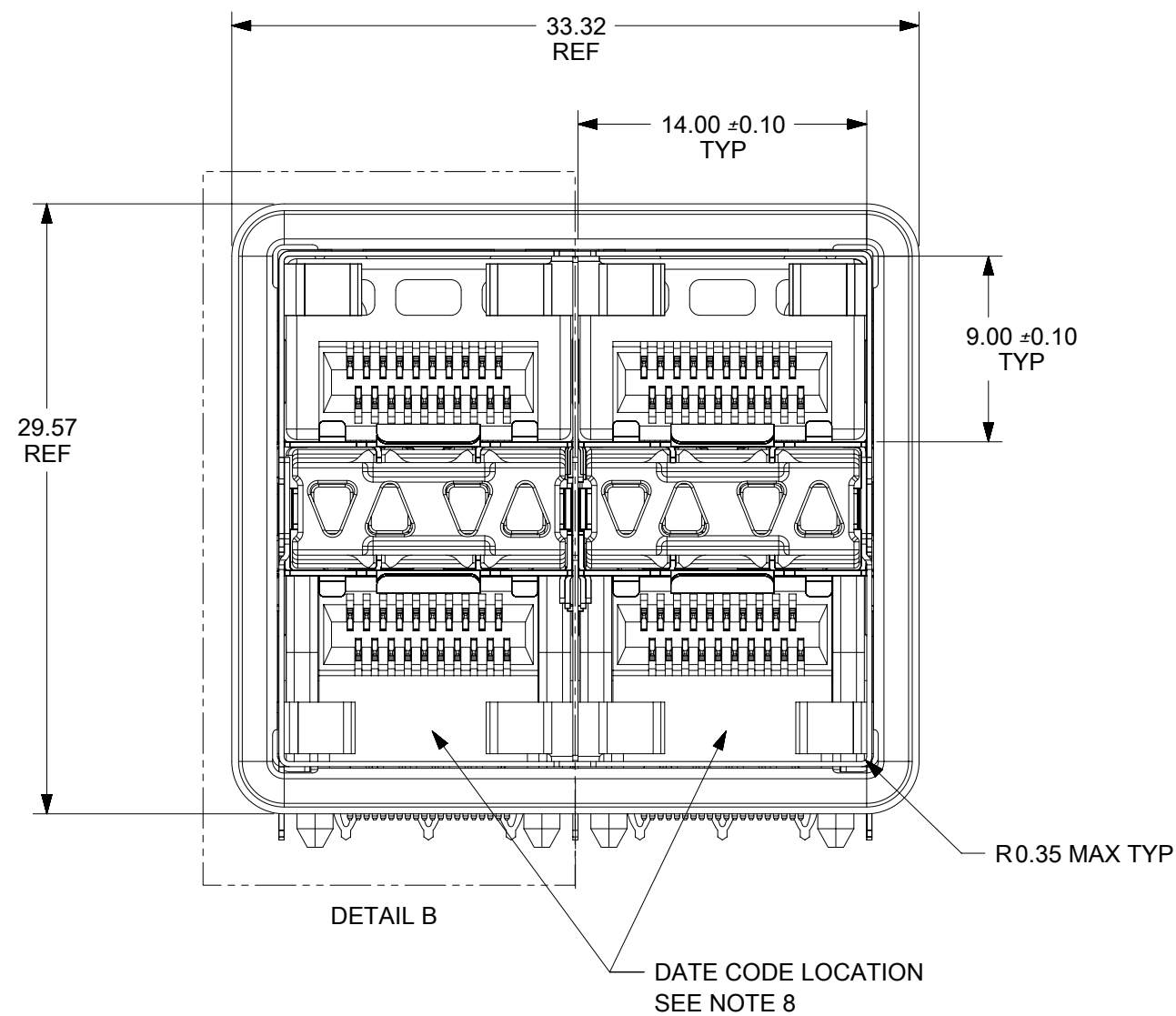
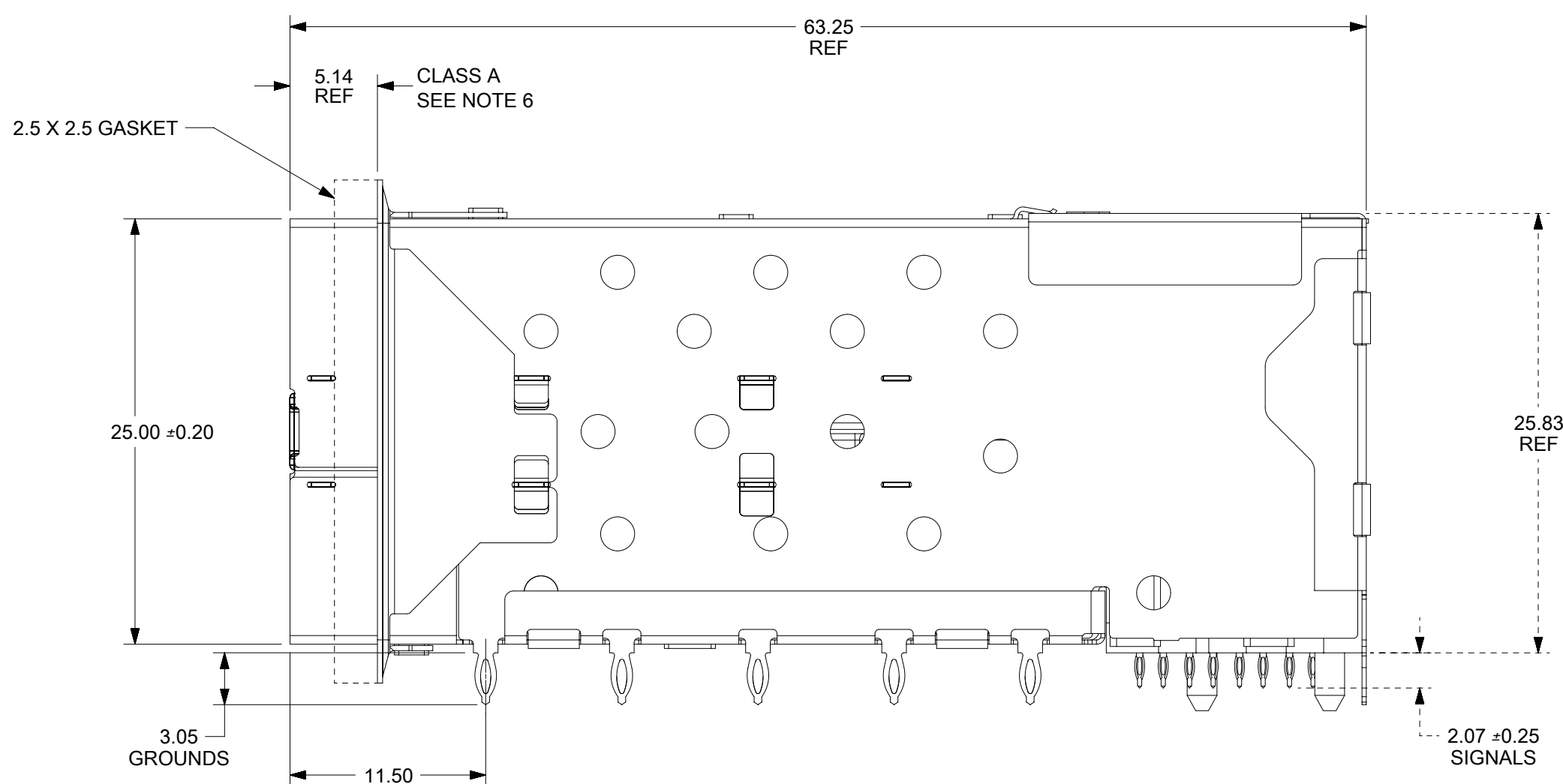
每触点最大电流	0.5A
数据传输率	10.0 Gbps, 28.0 Gbps
面板接地	无
屏蔽形式	EMI Gasket
屏蔽	是
电压 - 最大	120V AC (RMS)/DC

衬套颜色	不适用
电路详图	80
回路数（已载入）	80
电路数（最多）	80
颜色-树脂	Black, Clear (Blue Tint)
耐用性(插拔次数) - 最多次数	100
阻燃性	94V-0
性别	女
插接极性	无
锁定插接部位	是
材料 - 金属	High Performance Alloy (HPA)
材料 - 接合部位电镀	金牌
材料 - 终端电镀	Tin
材料 - 树脂	High Temperature Thermoplastic, Polycarbonate
净重	50.304/g
行数	2
方向	Right Angle
包装形式	Tray
面板安装式	否
PC 焊脚长度	2.07mm
PCB 定位器	是
PCB 保持力	是
推荐的 PCB 厚度	1.57mm
间距 - 插配接口	0.80mm
间距 - 终端界面	0.80mm
最薄镀层 - 接合部位	0.762µm
最薄镀层 - 端接	0.762µm
有极性的插配件	是
PCB 极性	是
端口	4
运行温度范围	-40° to +85° C
终端界面类型	Through Hole - Compliant Pin

防水/防尘	否
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进程

无铅	不适用
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NOTES

1. MATERIAL:

CAGE: NICKEL SILVER, THICKNESS: 0.25mm

CONNECTOR HOUSING: GLASS FILLED LIQUID CRYSTAL POLYMER (LCP), UL 94V-0,
COLOR: BLACK

OVERMOLD TERMINAL HOUSING: GLASS FILLED LIQUID CRYSTAL POLYMER (LCP),
UL 94V-0, COLOR: BLACK

TERMINALS: TIN BRASS

EMI GASKET: CONDUCTIVE ELASTOMER

LIGHTPIPE HOUSING: ZINC

LIGHTPIPES: POLYCARBONATE, COLOR: CLEAR

2. FINISHES:

TERMINALS: CONTACT AREA: 0.76 MICROMETERS MINIMUM HARD GOLD
OVER 1.27 MICROMETERS MINIMUM NICKEL.

COMPLIANT TAIL - MATTE TIN/LEAD OPTION: 0.76 TO 1.52 MICROMETERS

90/10 MATTE TIN-LEAD OVER 0.76 MICROMETERS MINIMUM NICKEL.

COMPLIANT TAIL - MATTE TIN OPTION: 0.76 TO 1.52 MICROMETERS

MATTE TIN OVER 0.76 MICROMETERS MINIMUM NICKEL.

LIGHTPIPE HOUSING: 80 MICROMETERS MINIMUM NICKEL OVER COPPER

3. REFER TO PS-75310-001 PRODECT SPEC FOR ALL ELECTRICAL, MECHANICAL, AND ENVIRONMENTAL SPECIFICATIONS.

4. LIGHT PIPE PAD LAYOUT IS FOR O8O5 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.

7. REFER TO AS-76090-001 FOR HIGH SPEED ROUTING RECOMMENDATIONS.
8. DATE CODE LOCATION IS SHOWN ABOVE.

DATE CODE FORMAT: DDDY MX A1

DDD = DAY OF THE YEAR

Y = YEAR

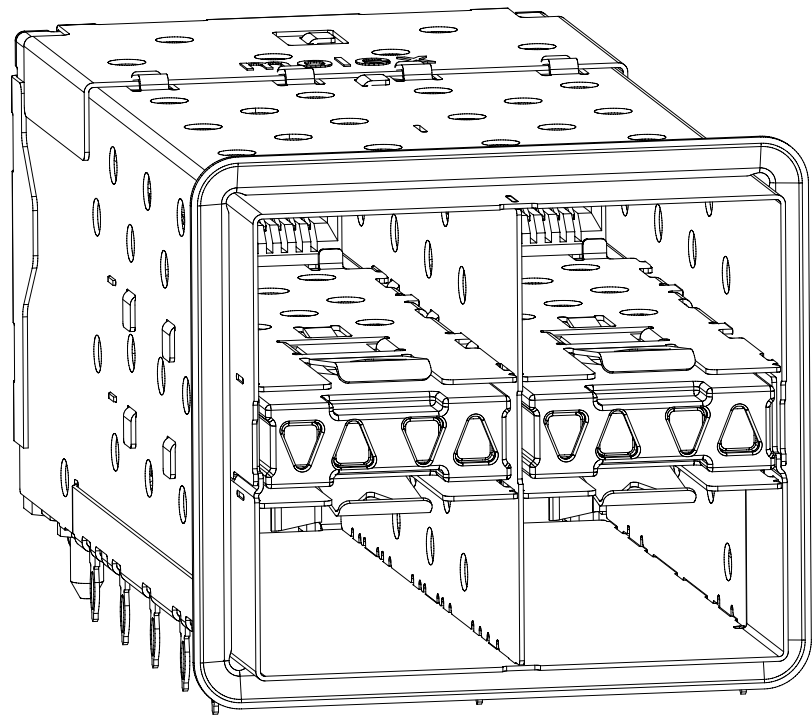
MX = MOLEX

A = ALPHA CHARACTER - INDICATES MANUFACTURING LINE

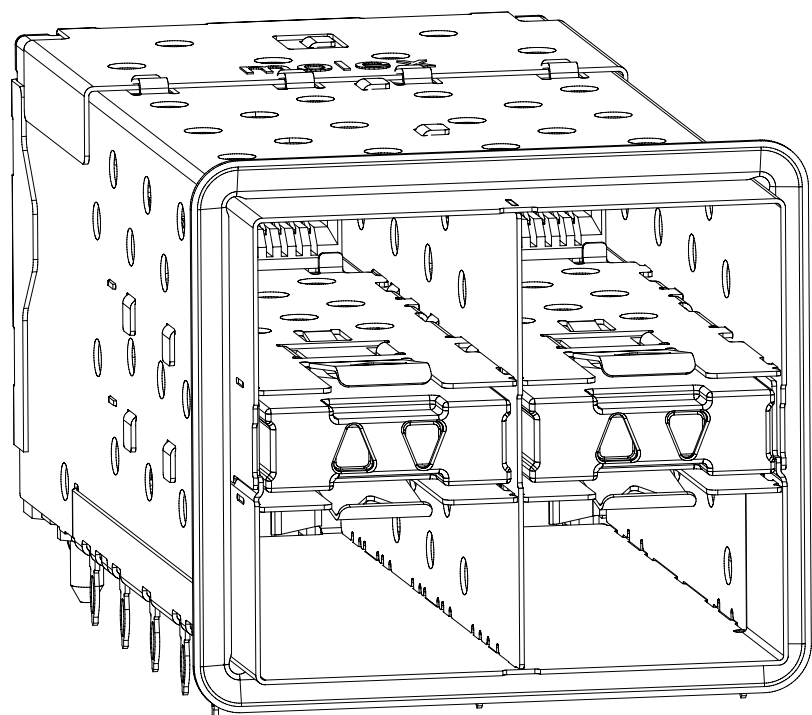
1 = NUMERIC CHARACTER - INDICATES PRODUCTION SHIFT

PART NUMBER	LIGHT PIPE CONFIGURATION (SEE SHEET 2)	COMPLIANT TAIL PLATING	CAGE PLATING
760910001	4 LIGHT PORTS	MATTE TIN / LEAD	N/A
760910002	INNER 2 PORTS	MATTE TIN / LEAD	N/A
760910003	OUTER 2 PORTS	MATTE TIN / LEAD	N/A
760915001	4 LIGHT PORTS	MATTE TIN	N/A
760915002	INNER 2 PORTS	MATTE TIN	N/A
760915003	OUTER 2 PORTS	MATTE TIN	N/A
760910001	4 LIGHT PORTS - SPECIAL CONFIGURATION	MATTE TIN	N/A

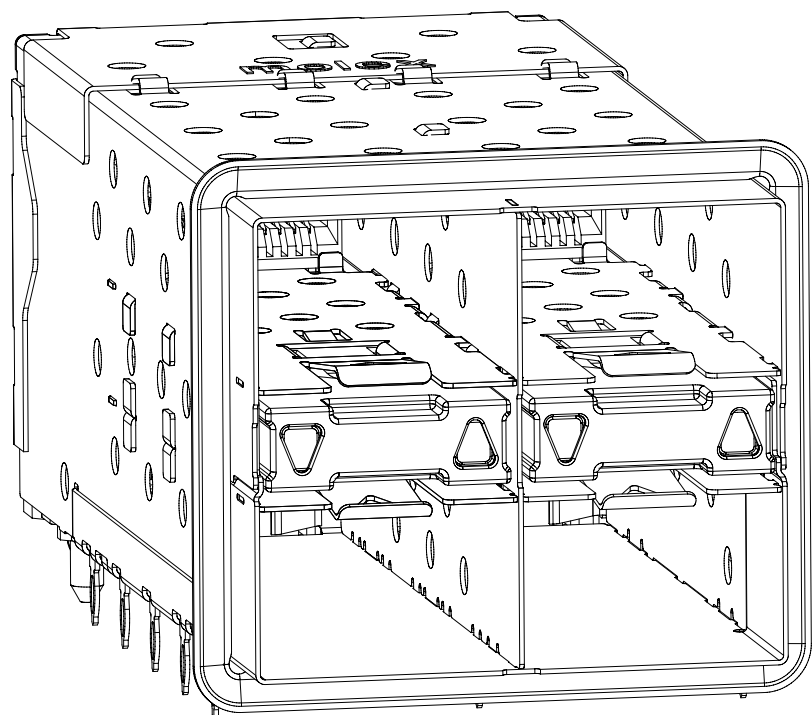
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	mm	3:1								
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 174126 DRWN: SVANG01 2018/01/22 CHK'D: MWOLFE 2018/03/23 APPR: SMILLER 2018/03/23				STACKED SFP+ 2X2 ASSY WITH ELASTOMERIC GASKET AND LIGHTPIPES			
 = 0										
 = 0	ANGULAR TOL ± 5.0 °		INITIAL REVISION: DRWN: JLONG 2007/02/05 APPR: RNELSON 2007/02/06				PRODUCT CUSTOMER DRAWING			
 = 0	4 PLACES ±									
 = 0	3 PLACES ±		DOCUMENT NUMBER SD-76091-001				DOC TYPE PSD	DOC PART 001	REVISION G	
 = 0	2 PLACES ± 0.13									
 = 0	1 PLACE ± 0.25		MATERIAL NUMBER SEE TABLE				CUSTOMER GENERAL MARKET		SHEET NUMBER 1 OF 4	
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 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 	DRAWING C-SIZE	SERIES 76091					



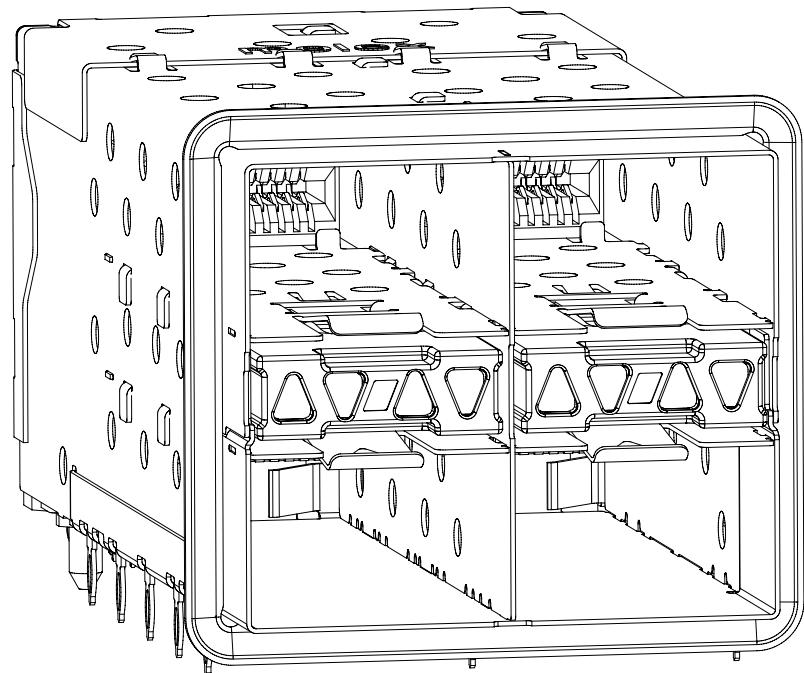
760910001 & 760915001
WITH INNER & OUTER LIGHTPIPE PORTS



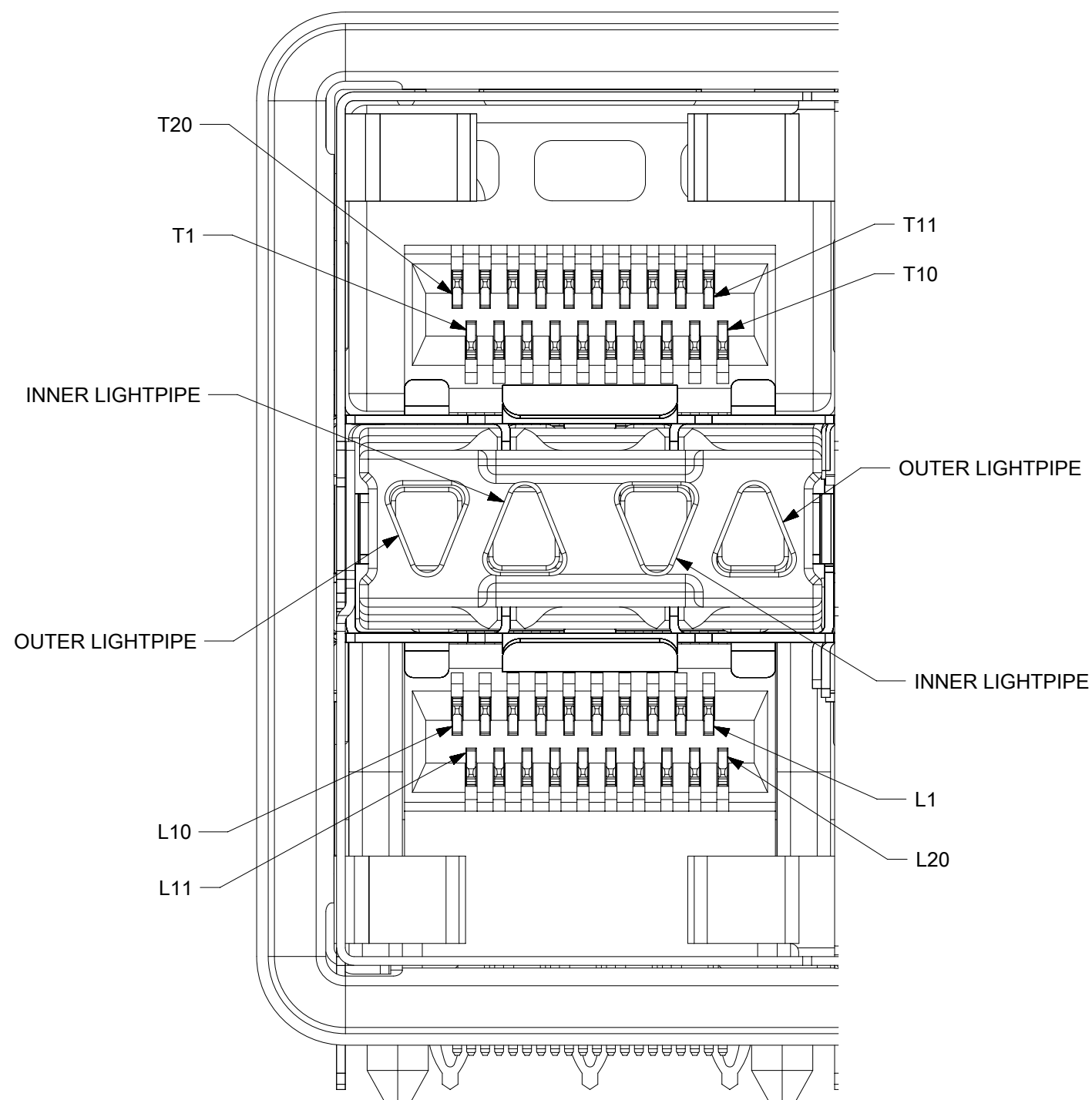
760910002 & 760915002
WITH INNER LIGHTPIPE PORTS



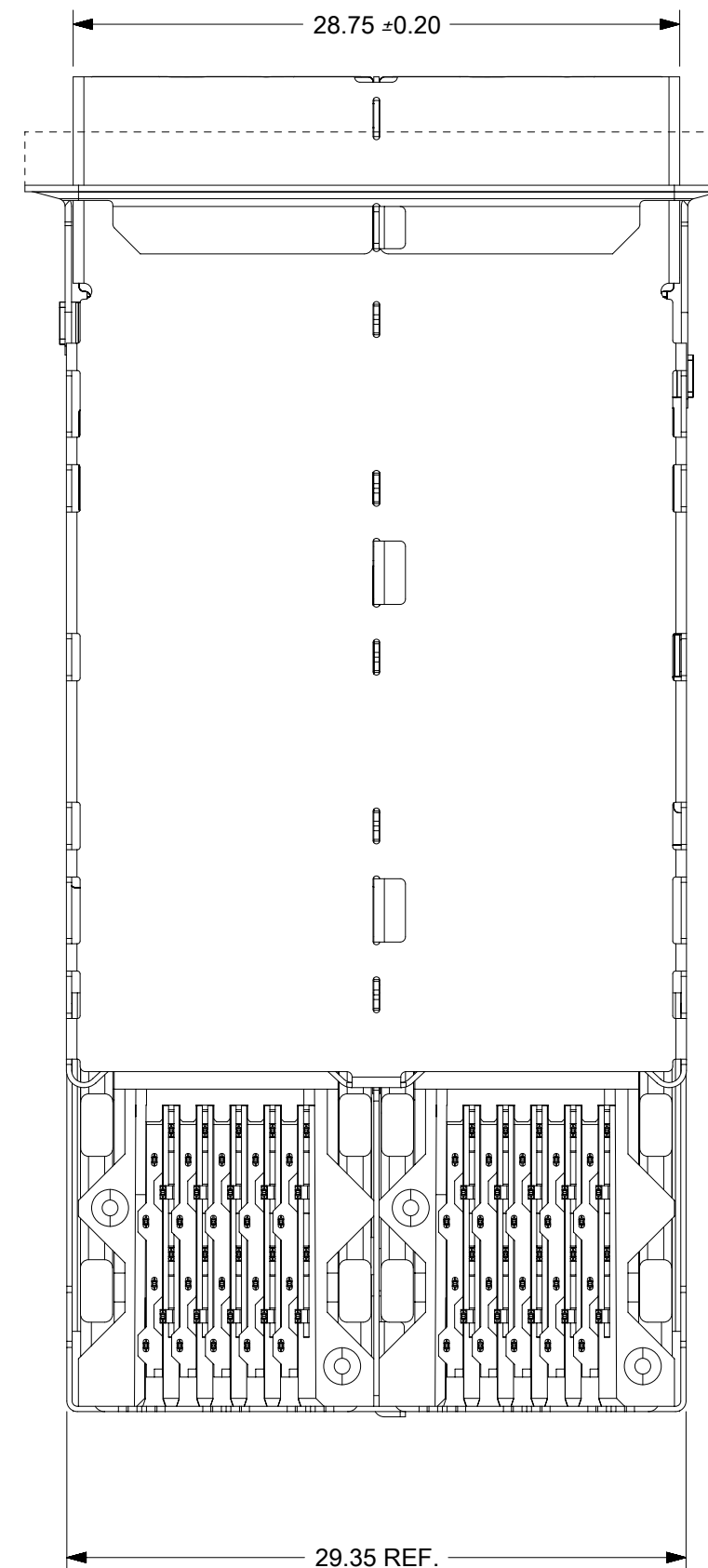
760910003 & 760915003
WITH OUTER LIGHTPIPE PORTS

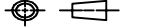


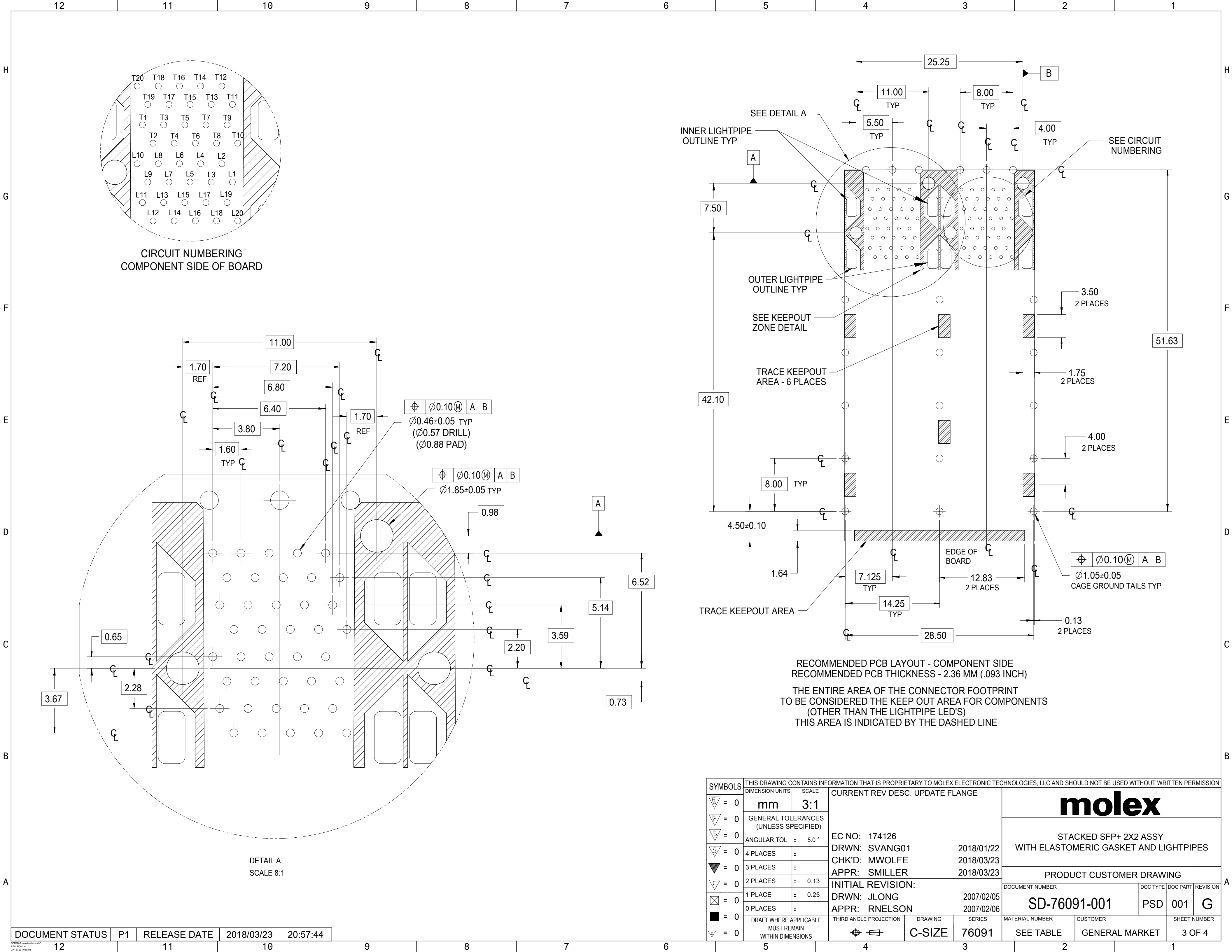
760915005
WITH INNER & OUTER LIGHTPIPE PORTS
SPECIAL CONFIGURATION



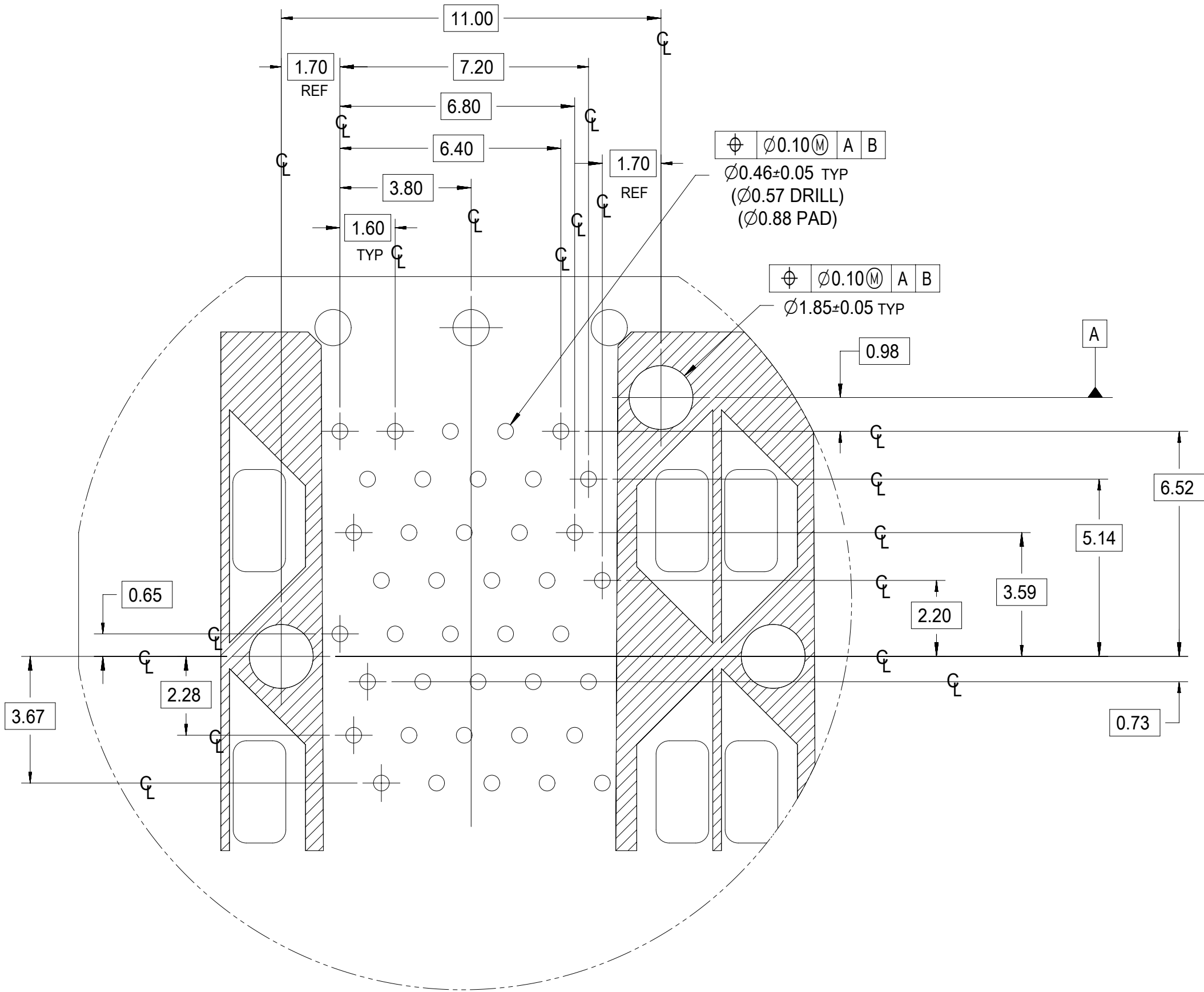
DETAIL B
SCALE 6:1
CIRCUIT NUMBERING AND
LIGHTPIPE IDENTIFICATION



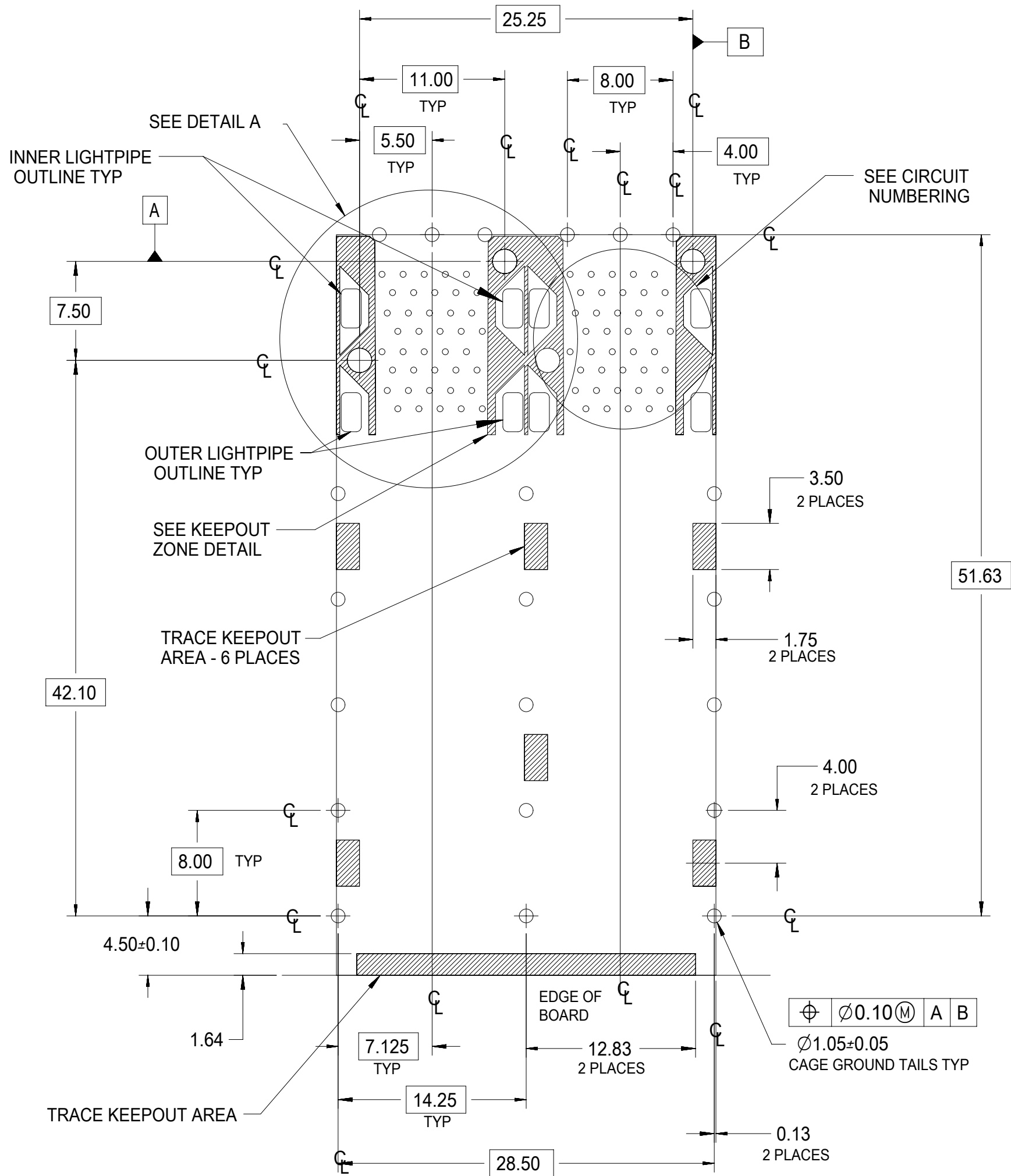
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 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)												
 = 0	ANGULAR TOL ± 5.0 °												
 = 0	4 PLACES		±	INITIAL REVISION: DRWN: JLONG 2007/02/05 APPR: RNELSON 2007/02/06				STACKED SFP+ 2X2 ASSY WITH ELASTOMERIC GASKET AND LIGHTPIPES					
 = 0	3 PLACES		±										
 = 0	2 PLACES		± 0.13										
 = 0	1 PLACE		± 0.25	PRODUCT CUSTOMER DRAWING				DOCUMENT NUMBER SD-76091-001		DOC TYPE PSD	DOC PART 001	REVISION G	
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 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 	DRAWING C-SIZE	SERIES 76091	MATERIAL NUMBER SEE TABLE		CUSTOMER GENERAL MARKET		SHEET NUMBER 2 OF 4			



CIRCUIT NUMBERING
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

SYMBOLS										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS					SCALE					CURRENT REV DESC: UPDATE FLANGE									
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= 0					3 PLACES ±					DRWN: SVANG01 2018/01/22									
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= 0					1 PLACE ± 0.25					APPR: SMILLER 2018/03/23									
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					DRAWING					SERIES									
					C-SIZE					76091									
					MATERIAL NUMBER					CUSTOMER									
					SEE TABLE					GENERAL MARKET									
					SHEET NUMBER					3 OF 4									

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STACKED SFP+ 2X2 ASSY
WITH ELASTOMERIC GASKET AND LIGHTPIPES

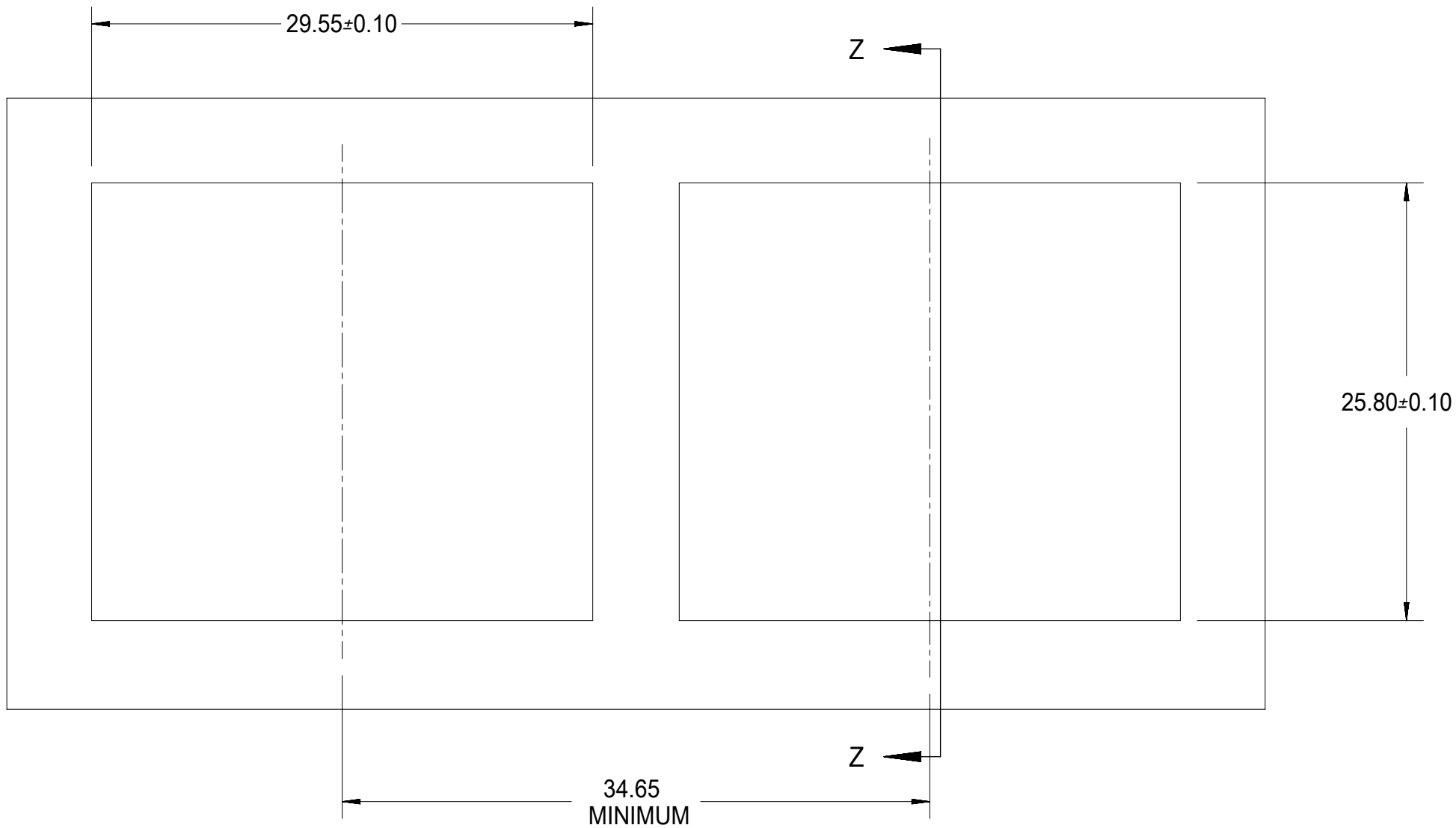
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-76091-001	PSD	001	G

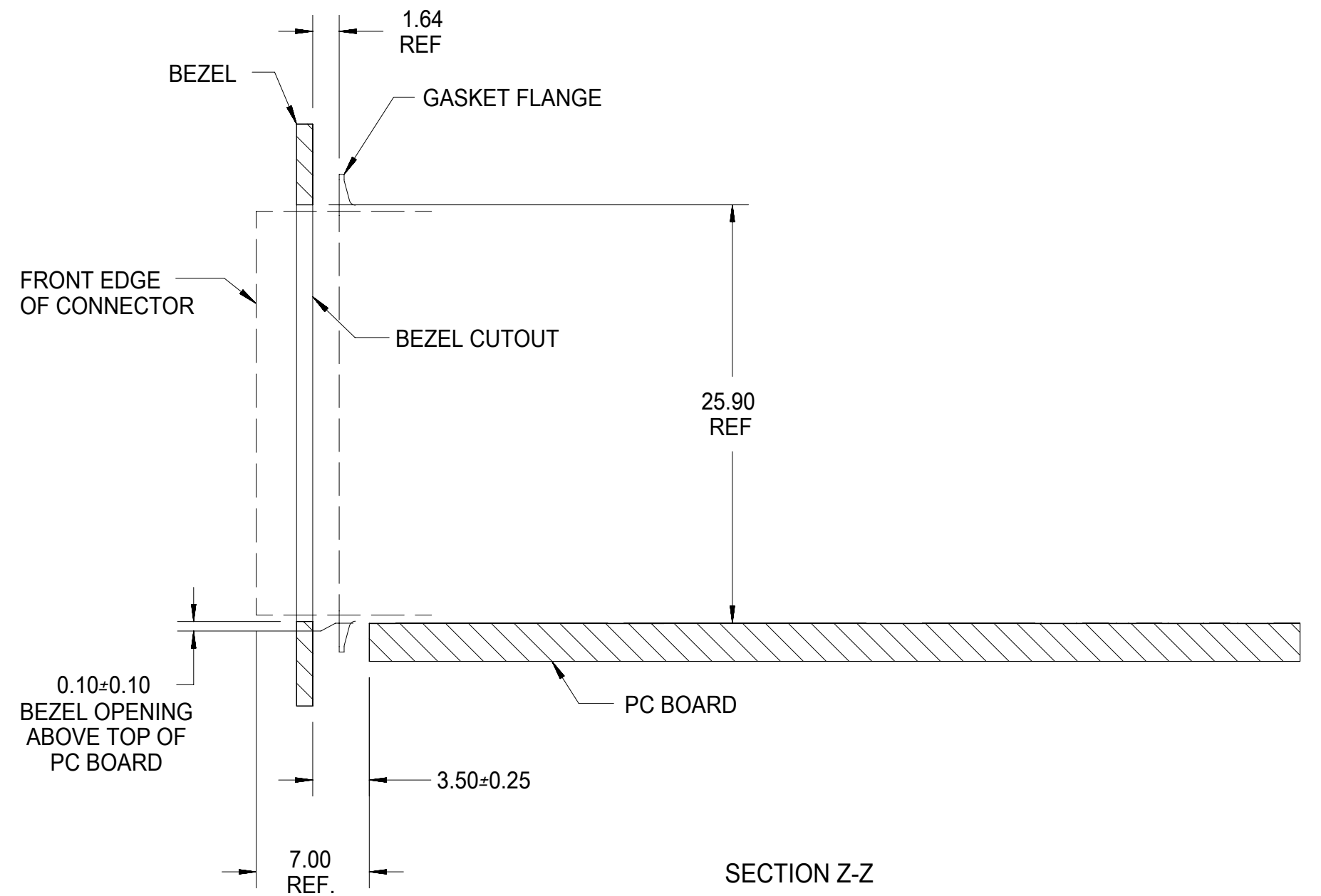
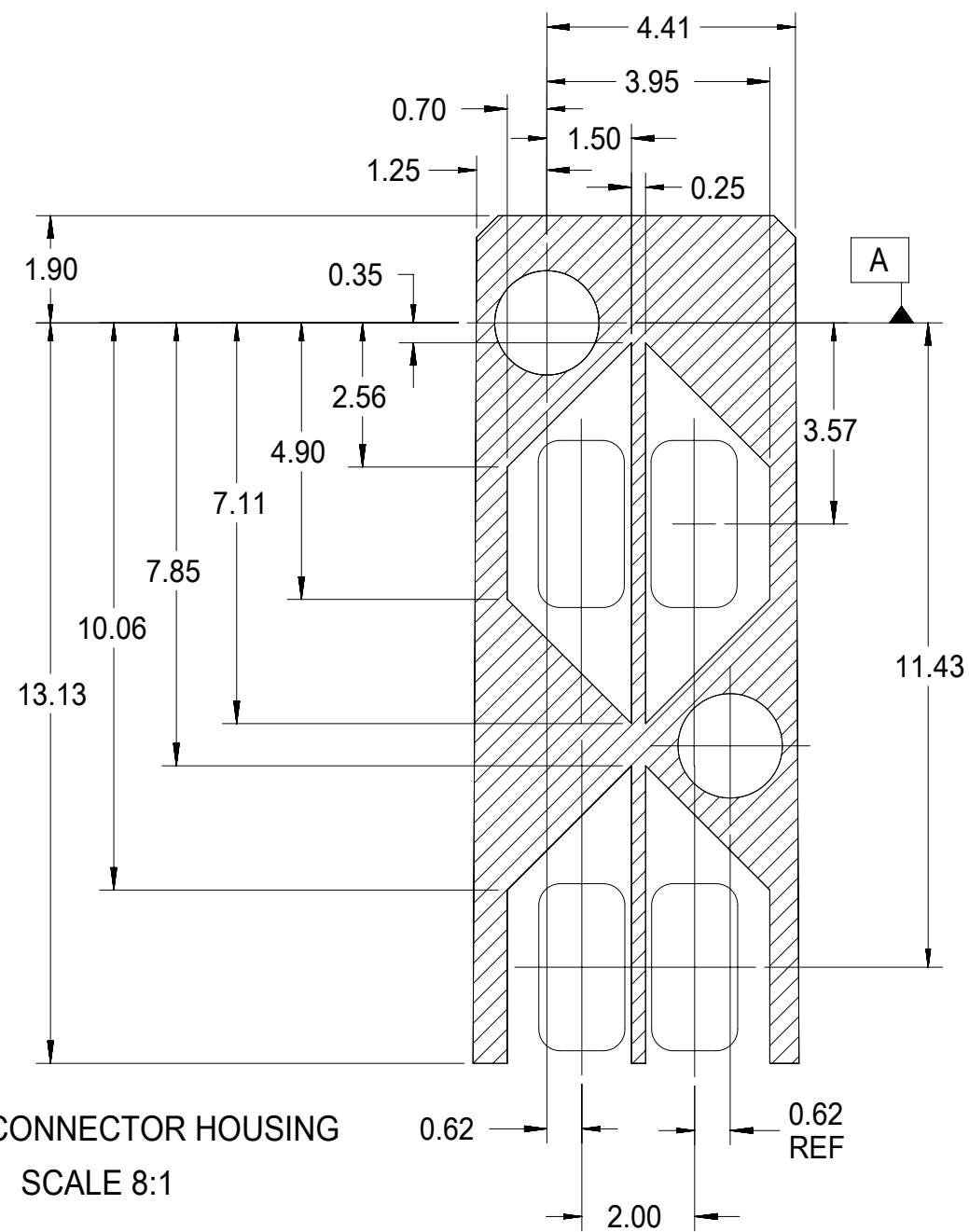
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	3 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2018/03/23	20:57:44
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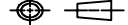
BEZEL CUT-OUT CENTER SPACING DETAIL
BEZEL THICKNESS: 0.8 - 2.6



CONNECTOR HOUSING
SCALE 8:1

KEEPOUT ZONE 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

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SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: UPDATE FLANGE				<div>molex</div>				
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STACKED SFP+ 2X2 ASSY
WITH ELASTOMERIC GASKET AND LIGHTPIPES

PRODUCT CUSTOMER DRAWING

SD-76091-001

PSD 001 G

SEE TABLE GENERAL MARKET 4 OF 4