This document was generated on 06/04/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0766912108
Status: Active
Overview:
Description: 0.80 mm (.031") Pitch EdgeLine™ 12.5 Gbps Edge Card Connector, 108 Circuits, 3 Bays, PCB Mating Thickness 1.57mm (.062")

Agency Certification

UL	E29179

General

Product Family	Edge Card Connectors
Series	76691
Component Type	Edgecard to PCB
Overview	edgeline_high_speed_connectors
Product Name	EdgeLine™

Physical

Circuits (Loaded)	108
Circuits (maximum)	108
Circuits Detail	All Signal
Color - Resin	Black
Durability (mating cycles max)	200
Entry Angle	Vertical
Keying to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold over Nickel
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
PC Tail Length (in)	0.091 In
PC Tail Length (mm)	2.30 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
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	30
Plating min: Termination (µm)	0.76
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	N/A

Electrical

Current - Maximum per Contact	1.5A
Voltage - Maximum	250V AC

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-76693-900
Product Specification	PS-75594-999
Sales Drawing	SD-76691-100

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
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

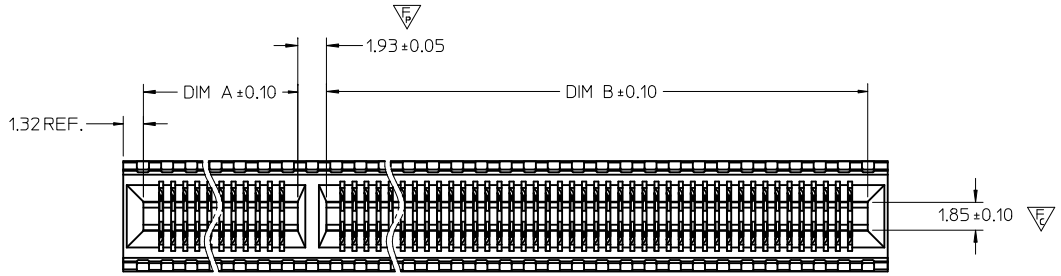
Please visit the Contact Us section for any non-product compliance questions.

Search Parts in this Series
76691Series

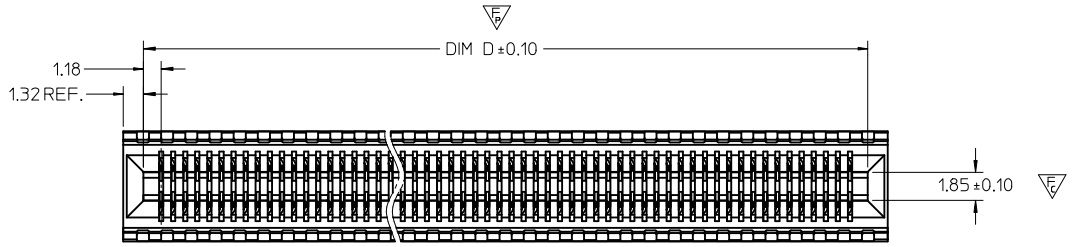
This document was generated on 06/04/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

PART NUMBER	VERSION	BAY 1/BAY 2	TOTAL CIRCUITS	DIM A	DIM B	DIM C	DIM D	MAX DIFF. PAIRS	STATUS
76691-2278	2 BAY	132/146	278	54.23	59.83	118.63	------	92	TOOLED
76691-1200	1 BAY	200	200	------	------	84.20	81.55	66	TOOLED
76691-2214	2 BAY	20/194	214	9.43	79.03	93.03	------	70	------
76691-1130	1 BAY	130	130	------	------	56.20	53.55	42	------
76691-2108	2 BAY	22/86	108	10.23	35.83	50.63	------	36	TOOLED
76691-2200	2 BAY	100/100	200	41.43	41.43	87.43	------	64	------
76691-2294	2 BAY	32/278	294	14.23	106.23	125.03	------	98	------
76691-1046	1 BAY	46	46	------	------	22.60	19.95	------	TOOLED
76691-1020	1 BAY	20	20	------	------	12.20	9.55	------	------
76691-2080	2 BAY	28/52	80	12.63	22.23	39.43	------	------	TOOLED
76691-9046*	1 BAY	46	46	------	------	22.60	19.95	------	TOOLED



2 BAY HSEC



1 BAY HSEC

NOTES:

1. MATERIAL:
   HOUSING - GLASS FILLED THERMOPLASTIC, 94-V0, BLACK
   TERMINALS - COPPER ALLOY
2. FINISH:
   CONTACT AREA: HARD GOLD -0.76µm MIN OVER 3.80µ NICKEL
   COMPLIANT AREA: TIN - 0.76/1.52µm OVER NICKEL
   * SPECIAL FINISH:
   CONTACT AREA: HARD GOLD -0.76µm MIN OVER 3.80µ NICKEL
   COMPLIANT AREA: TIN-LEAD - 0.76/1.52µm OVER NICKEL
3. REFER TO PS-75594-999 PRODUCT SPECIFICATION FOR ALL ELECTRICAL, MECHANICAL AND ENVIROMENTAL SPECIFICATIONS.
4. REFER TO PK-76693-900 FOR ALL PACKAGING SPECIFICATIONS.
5. PROCESSING: PRESSFIT TO PC BOARD.
6. MATING PC BOARD THICKNESS = 1.60±0.16MM OVER CONTACT PADS.
7. PRODUCT IS ELV AND RoHS COMPLIANT. LEVEL OF COMPLIANCE: 6/6
   ALL BANNED SUBSTANCES ARE REMOVED:
   Pb (LEAD)
   HEXAVALENT CHROMIUM (CrVI)
   CADMIUM
   MERCURY
   POLYBRMINATED BIPHENYL (PBB)
   POLYBROMINATED DIPHENYL ETHER (PBDE)
8. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPEC PS-45499-002

MARKED 1046 AS TOOLED
EC NO: UCP2010-2476 2010/02/11
DRWN:DROSCA 07/21/08
CHKD:JCOMERCI 07/21/08
APPR:JCOMERCI 2010/03/29
DESCRIPTION
A4
REV

QUALITY SYMBOLS
= 0
= 2
= 2

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: DROSCA DATE: 07/21/08
CHECKED BY: JCOMERCI DATE: 07/21/08
APPROVED BY: JCOMERCI DATE: 07/21/08
MATERIAL NO.: SEE TABLE

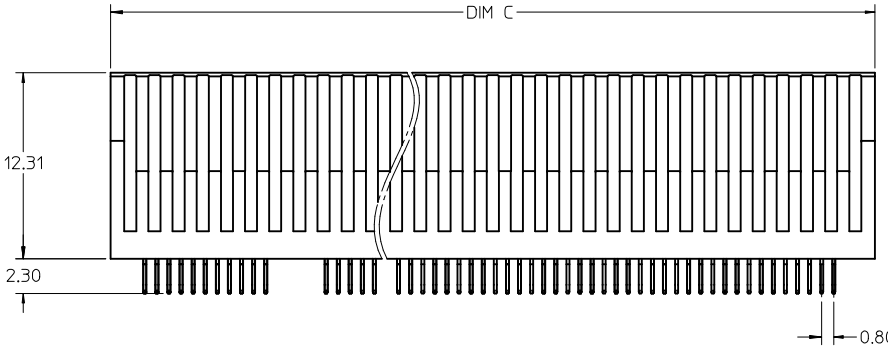
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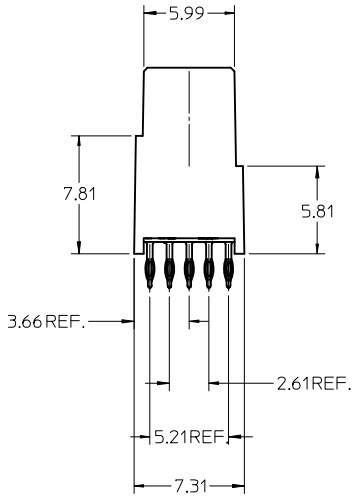
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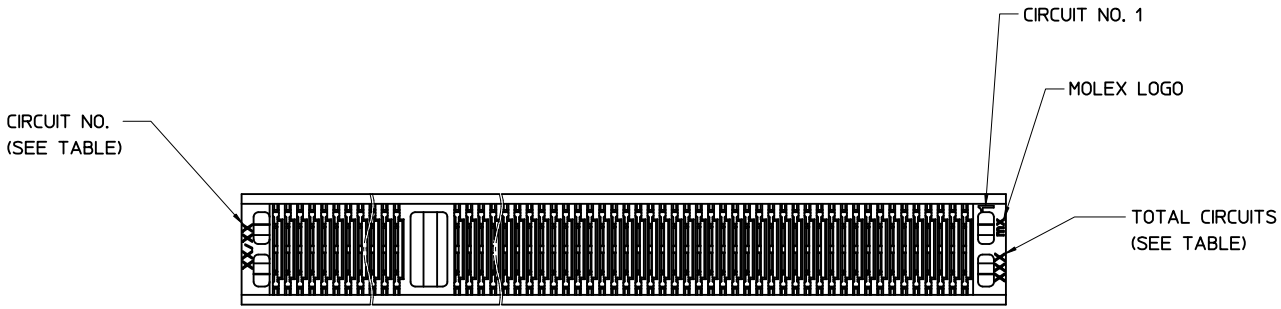
DOCUMENT NO.: SD-76691-100
SHEET NO.: 1 OF 6

SIZE: C

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SEE SHEET 1
EC NO: UCP2010-2476 2010/02/11
DRWN: DROSCA 07/21/08
CH'KD: JCOMERCI 07/21/08
APPR: JCOMERCI 2010/03/29
DESCRIPTION
A4
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 ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: DROSCA DATE: 07/21/08
CHECKED BY: JCOMERCI DATE: 07/21/08
APPROVED BY: JCOMERCI DATE: 07/21/08
MATERIAL NO.: SEE SHEET 1

TITLE
EDGE LINE 12.5GB
0.062"PCB/0.8MM PITCH
EDGE CARD CONNECTOR

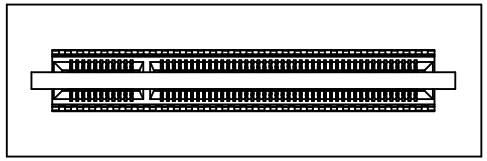
molex MOLEX INCORPORATED

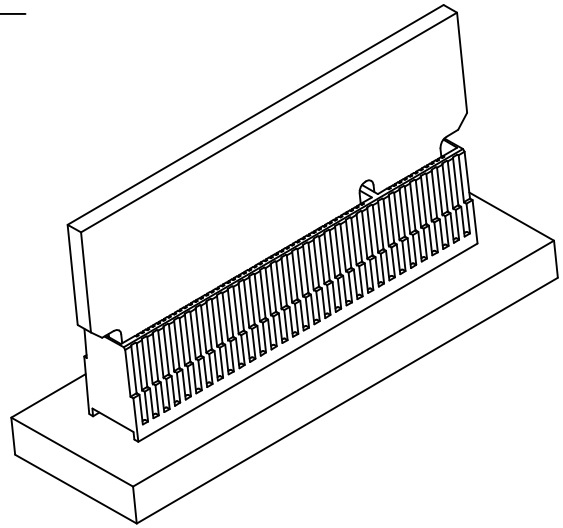
DOCUMENT NO.: SD-76691-100
SHEET NO.: 2 OF 6

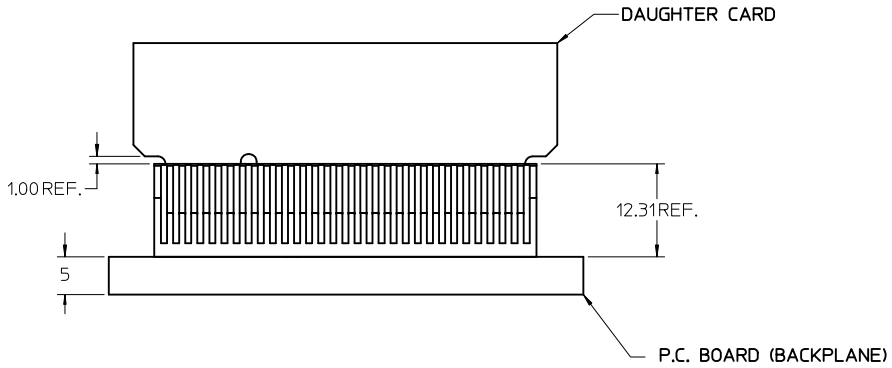
SIZE C

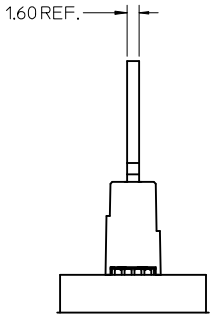
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P.C. BOARD MOUNTING



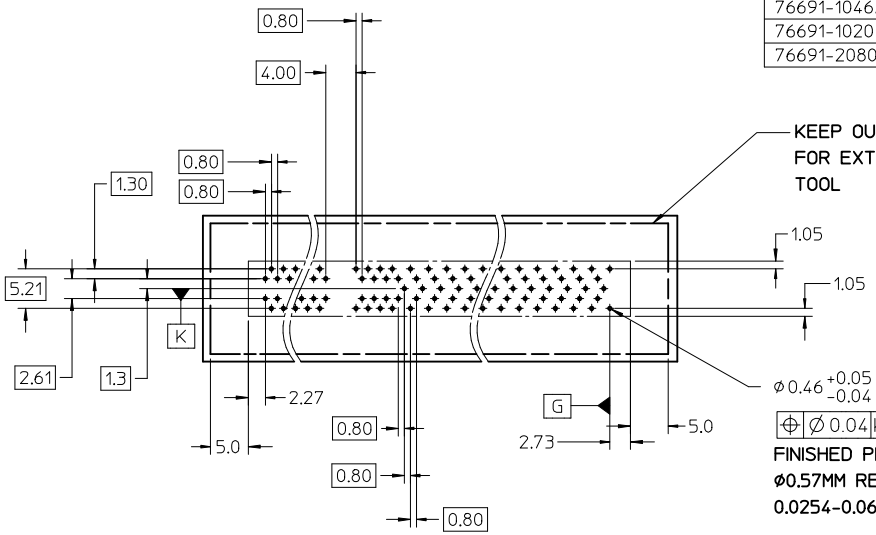






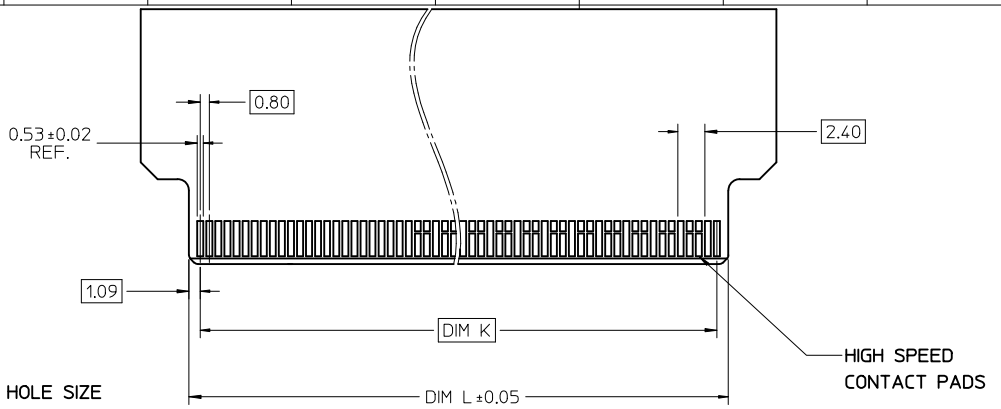
SEE SHEET 1 EC NO: UCP2010-2476 2010/02/11 DRWN:DROSCA 07/21/08 CH'KD:JCOMERCI 2010/03/29 APPR:JCOMERCI DESCRIPTION A4 REV	QUALITY SYMBOLS ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm / INCH 4 PLACES ± --- / ± --- 3 PLACES ± --- / ± --- 2 PLACES ± 0.13 / ± --- 1 PLACE ± 0.25 / ± --- ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY	SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION								
			DRAWN BY DROSCA	DATE 07/21/08	TITLE EDGE LINE 12.5GB 0.062"PCB/0.8MM PITCH EDGE CARD CONNECTOR								
			CHECKED BY JCOMERCI	DATE 07/21/08									
			APPROVED BY JCOMERCI	DATE 07/21/08	molex MOLEX INCORPORATED								
			MATERIAL NO. SEE SHEET 1		DOCUMENT NO. SD-76691-100							SHEET NO. 3 OF 6	
			SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

PART NUMBER	VERSION	DIM E	DIM F	DIM G	DIM H	DIM K	DIM L
76691-2278	2 BAY	52.00	57.60	53.90	59.50	------	------
76691-1200	1 BAY	------	------	------	------	79.20	81.38
76691-2214	2 BAY	7.20	76.80	9.10	78.70	------	------
76691-1130	1 BAY	------	------	------	------	51.20	53.38
76691-2108	2 BAY	8.00	33.60	9.90	35.50	------	------
76691-2200	2 BAY	39.20	39.20	41.10	41.10	------	------
76691-2294	2 BAY	12.00	104.00	13.90	105.90	------	------
76691-1046/76691-9046	1 BAY	------	------	------	------	17.60	19.78
76691-1020	1 BAY	------	------	------	------	7.20	9.38
76691-2080	2 BAY	10.40	20.00	12.30	21.90	------	------

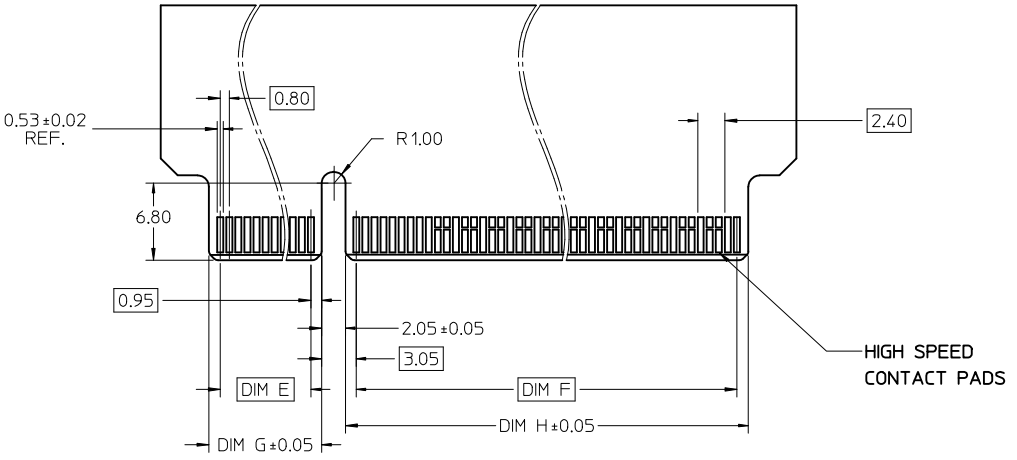


FINISHED PLATED THRU HOLE SIZE
ø0.57MM REF. DRILLED HOLE SIZE
0.0254-0.0635 ELECTRO DEPOSITED COPPER

GENERAL PCB LAYOUT
(YOUR CONFIGURATION MAY VARY)



DAUGHTER CARD



DAUGHTER CARD

SEE SHEET 1
EC NO: UCP2010-2476 2010/02/11
DRWN:DROSCA 07/21/08
CHKD:JCOMERCI 2010/03/29
APPR:JCOMERCI
DESCRIPTION
A4
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: DROSCA DATE: 07/21/08
CHECKED BY: JCOMERCI DATE: 07/21/08
APPROVED BY: JCOMERCI DATE: 07/21/08
MATERIAL NO.: SEE SHEET 1

TITLE
EDGE LINE 12.5GB
0.062"PCB/0.8MM PITCH
EDGE CARD CONNECTOR

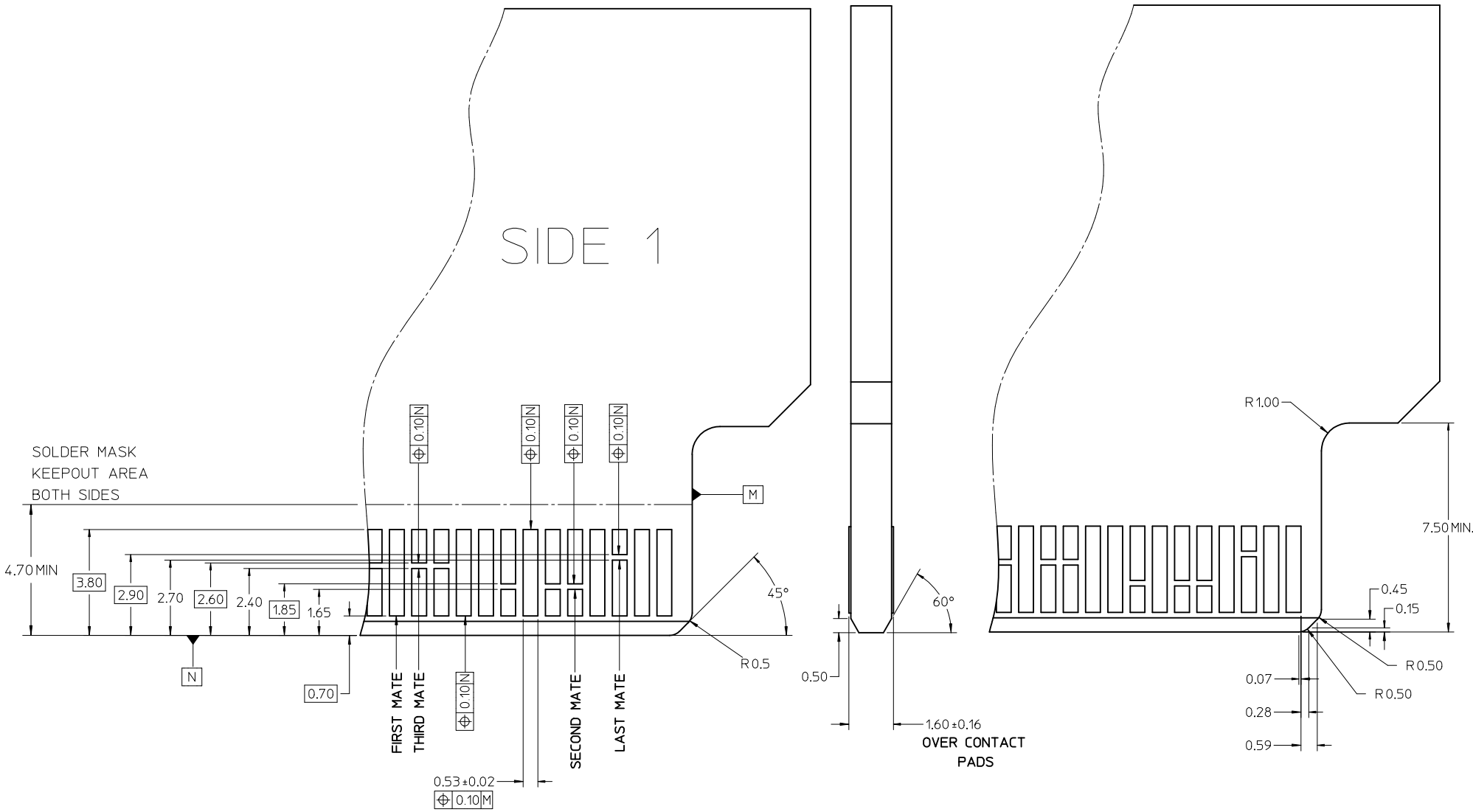
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DOCUMENT NO.: SD-76691-100
SHEET NO.: 4 OF 6

SIZE: C

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MODULE EDGE CARD CONTACT DETAIL



Note:

These are generic details that describe the configuration of various PCB design elements. The customer must determine where and when to use each element to accommodate their specific application."

SEE SHEET 1	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
EC NO: UCP2010-2476 2010/02/11	▼=0		mm	INCH	MM ONLY	10:1	METRIC		
DRWN:DROSCA 07/21/08	▽=0	4 PLACES	± ---	± ---	DROSCA 07/21/08	TITLE: EDGE LINE 12.5GB 0.062"PCB/0.8MM PITCH EDGE CARD CONNECTOR			
CH'KD:JCOMERCI 2010/03/29		3 PLACES	± ---	± ---	CHECKED BY / DATE: JCOMERCI 07/21/08				
APPR:JCOMERCI DESCRIPTION		2 PLACES	± 0.13	± ---	APPROVED BY / DATE: JCOMERCI 07/21/08	molex MOLEX INCORPORATED			
A4 REV		1 PLACE	± 0.25	± ---	MATERIAL NO.: SEE SHEET 1	DOCUMENT NO.: SD-76691-100		SHEET NO.: 5 OF 6	
		ANGULAR ±1/2°							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE: C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

LEGEND								
COMPONENT SIDE 1							COMPONENT SIDE 2	
PIN NO.	SIGNAL	ALLEGRO PIN NO.					SIGNAL	PIN NO.

SEE SHEET 1
EC NO: UCP2010-2476 2010/02/11
DRWN:DROSCA 07/21/08
CH'KD:JCOMERCI 2010/03/29
APPR:JCOMERCI

A4

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 ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY

SCALE: 4:1

DESIGN UNITS: METRIC

THIRD ANGLE PROJECTION

DRAWN BY	DATE
DROSCA	07/21/08
CHECKED BY	DATE
JCOMERCI	07/21/08
APPROVED BY	DATE
JCOMERCI	07/21/08

TITLE

EDGE LINE 12.5GB
0.062"PCB/0.8MM PITCH
EDGE CARD CONNECTOR

MOLEX INCORPORATED

MATERIAL NO.: SEE SHEET 1

DOCUMENT NO.: SD-76691-100

SHEET NO.: 6 OF 6

SIZE: C

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

tb_frame_C_P_AM_T
Rev. E 2006/04/15