

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0467200016](#)
Status: **Active**
Overview:
Description: 0.80 mm (.031") Pitch EdgeLine™ 12.5 Gbps Edge Card Connector, 108 Circuits, PCB Mating Thickness 1.57mm (.062")

General

Product Family	Edge Card Connectors
Series	76421
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	None
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, 0.110 In
PCB Thickness Recommended (mm)	1.57 mm, 2.79 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
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

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

Material Info

Reference - Drawing Numbers

Application Specification	AS-46720-001, AS-46720-002
Packaging Specification	PK-46720-001
Product Specification	PS-46720-001
Sales Drawing	SD-46720-0000, SD-46720-7710
Test Summary	TS-46720-001, TS-46720-002

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Halogen-Free

China RoHS



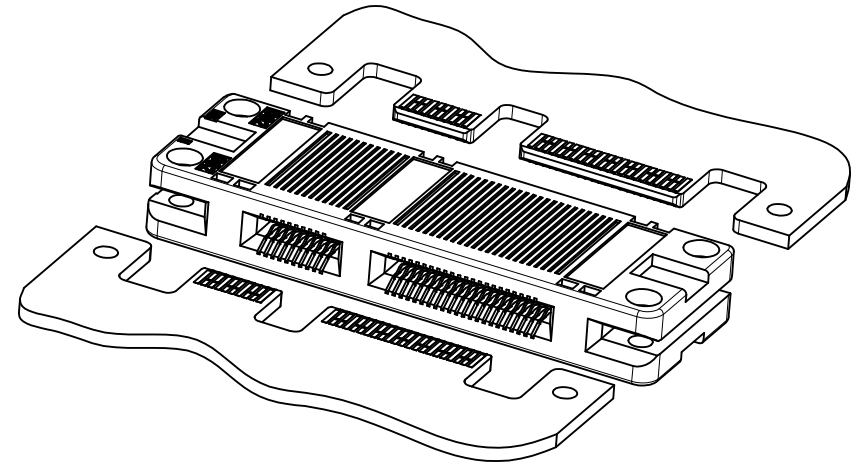
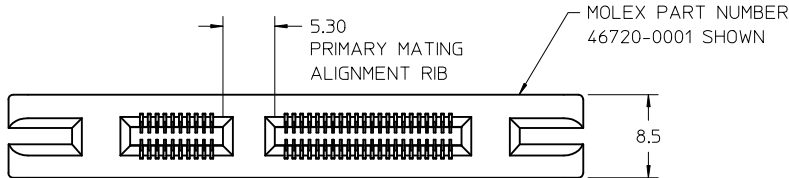
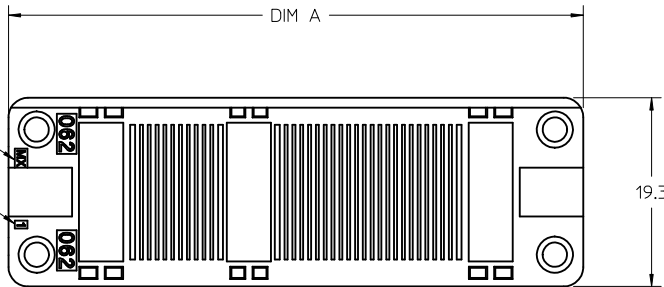
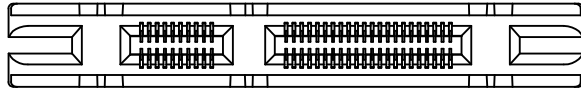
Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

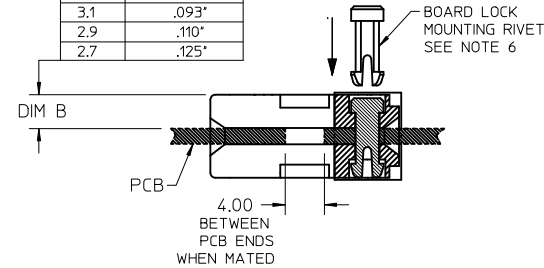
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[76421Series](#)

10 9 8 7 6 5 4 3 2 1



DIM B	PCB THK (in)
3.5	.062"
3.1	.093"
2.9	.110"
2.7	.125"



NOTES:

- MATERIAL:
HOUSING: LCP, UL94V-0, BLACK
TERMINAL: BRASS
- FINISH: SELECT GOLD: 0.76 μ m MIN, OVERALL NICKEL: 3.80 μ m MIN
- ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED.
- PRODUCT SPECIFICATION: PS-46720-001
- PACKAGING SPECIFICATION: PK-46720-001
- SPLIT PAD LAYOUT SHOWN FOR REFERENCE ONLY. CUSTOMER CAN DESIGNATE GROUND AND SIGNAL PAD LAYOUT BASED ON INTERNAL REQUIREMENTS. CUSTOMER SHOULD SEE MOLEX DOCUMENT # AS-46720-002 FOR RECOMMENDATIONS.
- OPTIONAL BOARD LOCK MOUNTING RIVET AVAILABLE. MOLEX PART NUMBER 46720-7710. MOLEX RIVET REMOVAL TOOL NUMBER 638123502. SEE SD-46720-7710 FOR RIVET SALES DRAWING.

REPLACED SD-46720-001

EC NO: UCP2010-2317

DRWN: TGREGORI 2010/03/24

CHKD: JCOMERC 2010/04/12

APPR: JCOMERC 2010/04/12

REV

DESCRIPTION

QUALITY SYMBOLS
F=0
F=0
F=0
=1

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY DATE
TGREGORI 2010/03/24

CHECKED BY DATE

APPROVED BY DATE
JCOMERC 2010/04/12

MATERIAL NO.

SEE SHEET 6

SIZE B

SCALE
2:1

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

ASSEMBLY
EDGE LINE COEDGE
CONNECTOR, 100 OHM

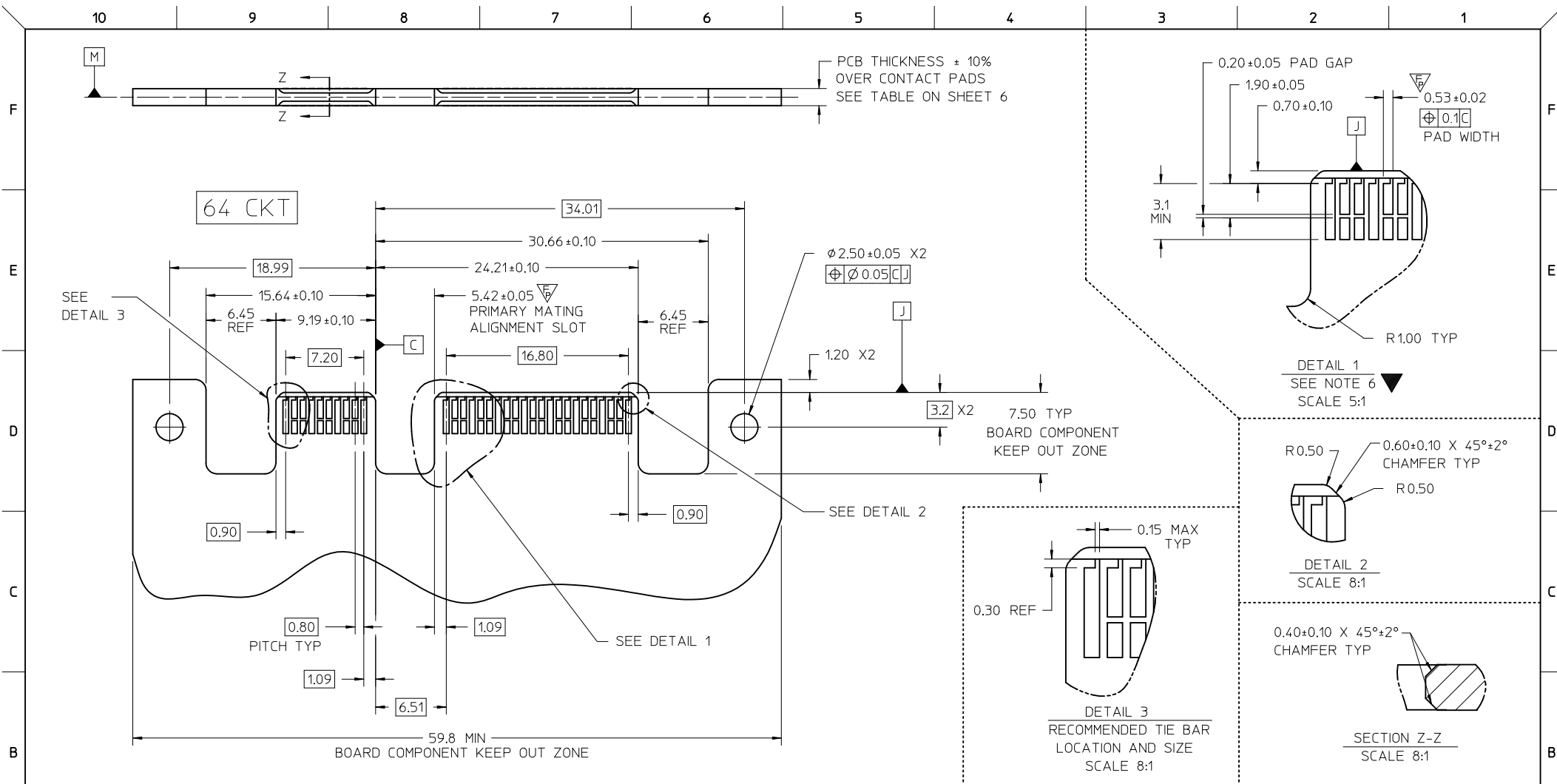
MOLEX INCORPORATED

DOCUMENT NO. SD-46720-0000

SHEET NO. 1 OF 6

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

9 8 7 6 5 4 3 2 1



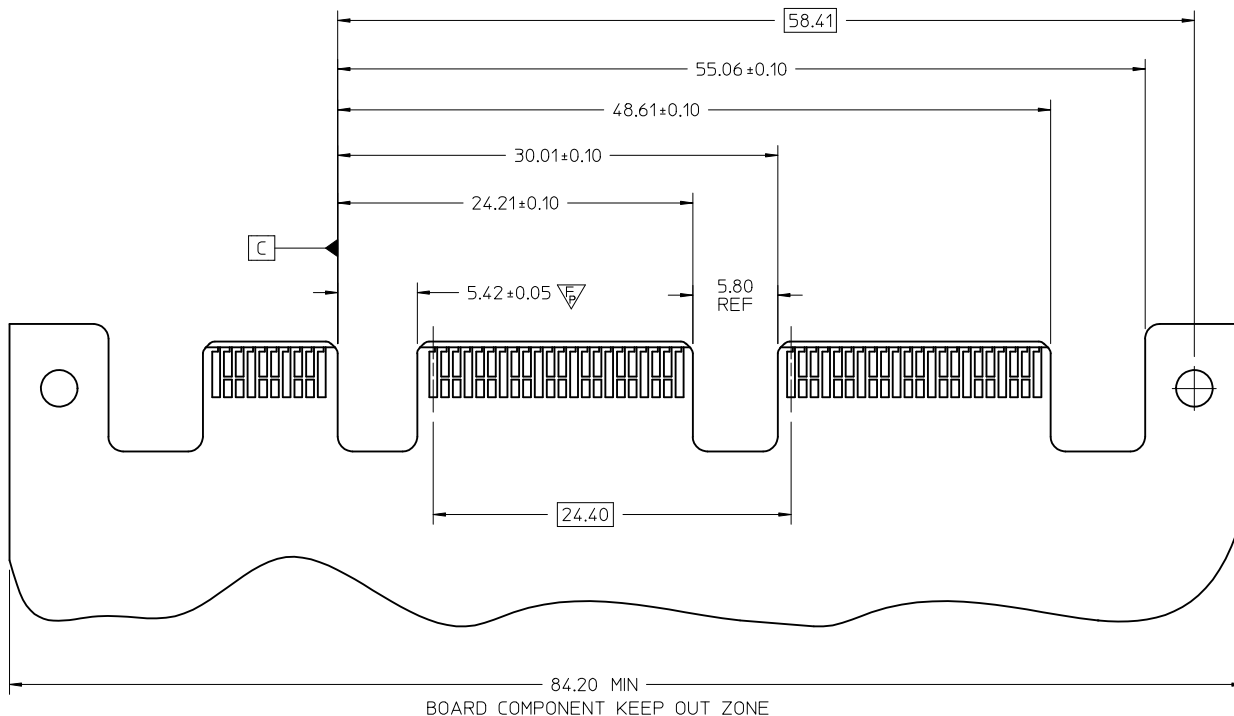
NOTE:
CONTACT MOLEX FOR CUSTOMER APPLICATIONS
WITH MULTIPLE CONNECTORS PER BOARD

SEE SHEET 1 EC NO: UCP2010-2317 DRAWN: TREGORI CHKD: APPR: JCOMERC I	DESCRIPTION 2010/03/24 2010/04/12 2010/04/12	QUALITY SYMBOLS ▽=0 ▽=0 ▽=2 ▽=2	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm INCH		DRAWN BY TREGORI		DATE 2010/03/24		TITLE ASSEMBLY EDGE LINE COEDGE CONNECTOR, 100 OHM		
			4 PLACES 3 PLACES 2 PLACES 1 PLACE		± --- ± --- ± --- ± ---		CHECKED BY DATE				
			ANGULAR ±1/2°		APPROVED BY JCOMERC I		DATE 2010/04/12		MOLEX INCORPORATED		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE SHEET 6		DOCUMENT NO. SD-46720-0000				
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10 9 8 7 6 5 4 3 2 1

108 CKT

ALL DIMENSIONS ARE THE SAME AS 64 CKT UNLESS OTHERWISE SPECIFIED



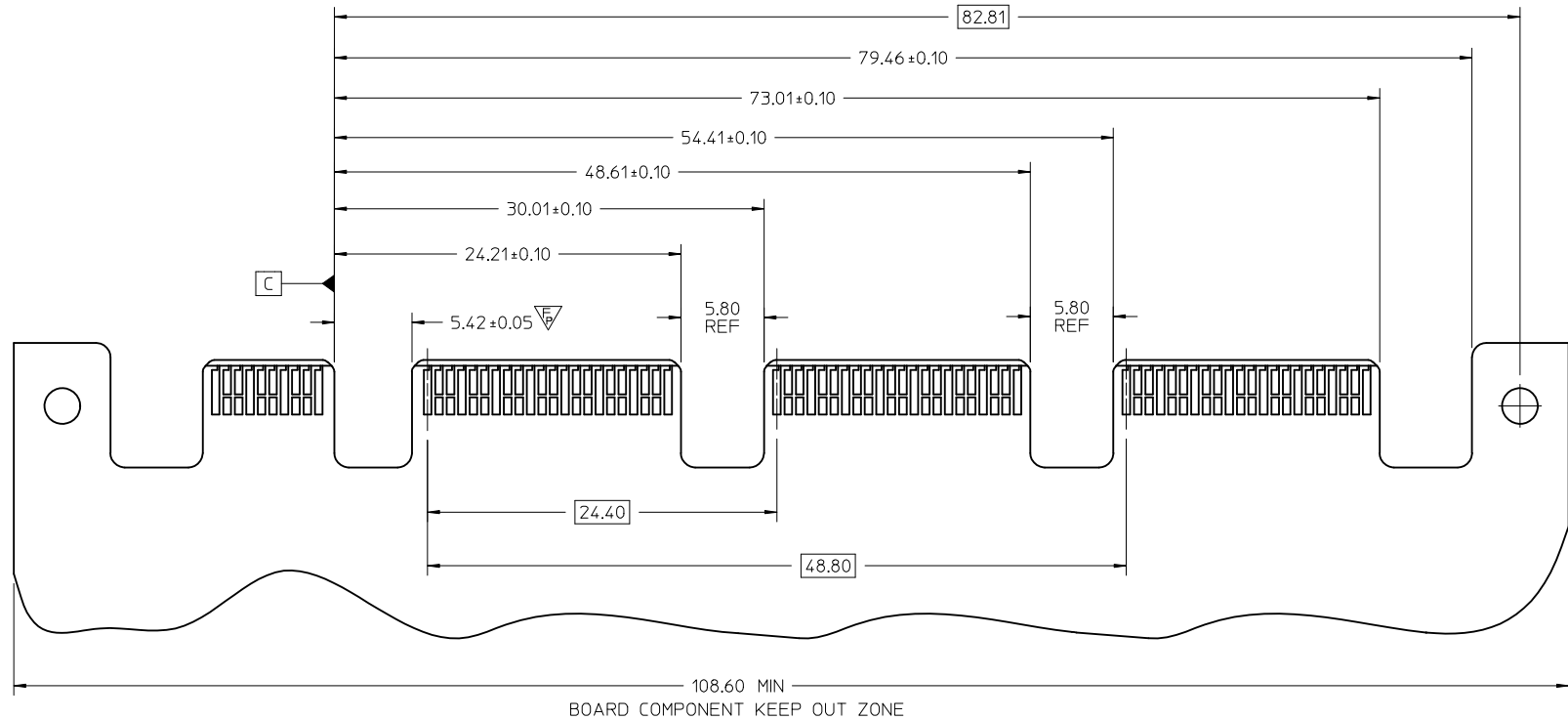
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WITH MULTIPLE CONNECTORS PER BOARD

SEE SHEET 1 EC NO: UCP2010-2317 DRAWN: TREGORI 2010/03/24 CHKD: 2010/04/12 APPR: JCOMERC I 2010/04/12	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0 ▽=1 ▽=1	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
					DRAWN BY TREGORI	DATE 2010/03/24	TITLE ASSEMBLY EDGE LINE COEDGE CONNECTOR, 100 OHM			
					CHECKED BY	DATE				
					APPROVED BY JCOMERC I	DATE 2010/04/12	 MOLEX INCORPORATED	SHEET NO. 3 OF 6		
			ANGULAR ±1/2°		MATERIAL NO.	DOCUMENT NO.				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 6		SD-46720-0000			
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

10 9 8 7 6 5 4 3 2 1

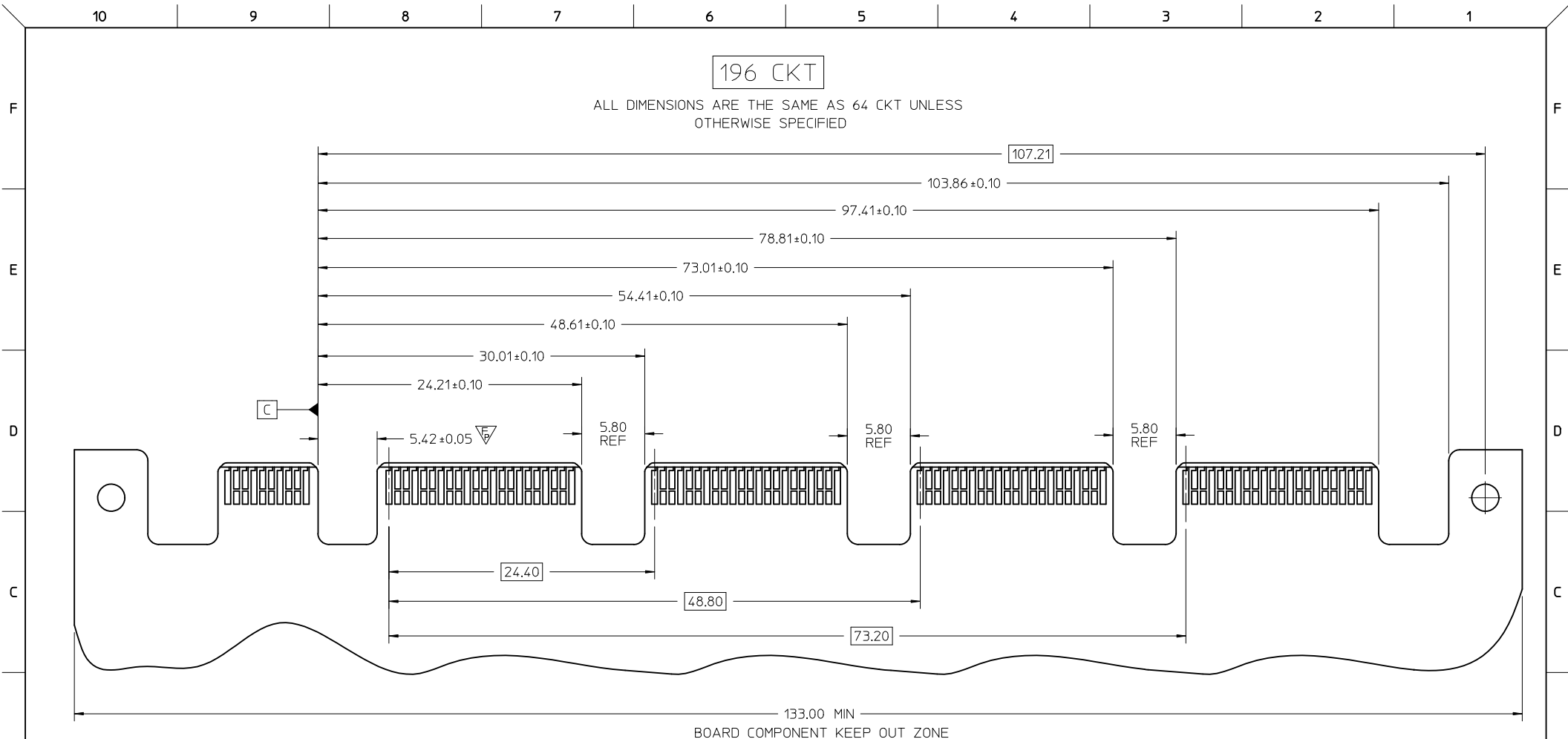
152 CKT

ALL DIMENSIONS ARE THE SAME AS 64 CKT UNLESS
OTHERWISE SPECIFIED



NOTE:
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WITH MULTIPLE CONNECTORS PER BOARD

SEE SHEET 1 EC NO: UCP2010-2317 DRAWN: TREGORI 2010/03/24 CHKD: 2010/04/12 APPR: JCOMERC I 2010/04/12	QUALITY SYMBOLS ▽=0 ▽=0 ▽=1 ▽=1	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION
			MM ONLY		3:1	METRIC	
			DRAWN BY DATE		TITLE ASSEMBLY EDGE LINE COEDGE CONNECTOR, 100 OHM		
			mm	INCH			
			TREGORI 2010/03/24				
			CHECKED BY DATE		MOLEX INCORPORATED		
			APPROVED BY DATE		DOCUMENT NO.		
			JCOMERC I 2010/04/12				
MATERIAL NO.							
SIZE		SHEET NO.					
B		4 OF 6					
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NOTE:
CONTACT MOLEX FOR CUSTOMER APPLICATIONS
WITH MULTIPLE CONNECTORS PER BOARD

SEE SHEET 1 EC NO: UCP2010-2317 DRAWN: TREGORI 2010/03/24 CHKD: 2010/04/12 APPR: JCOMERC I 2010/04/12	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0 ▽=1 ▽=1	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ±1/2°</td></tr></table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	ANGULAR ±1/2°			DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
					mm	INCH																				
				4 PLACES	± ---	± ---																				
				3 PLACES	± ---	± ---																				
				2 PLACES	± ---	± ---																				
				1 PLACE	± ---	± ---																				
ANGULAR ±1/2°																										
DRAWN BY TREGORI		DATE 2010/03/24		TITLE ASSEMBLY EDGE LINE COEDGE CONNECTOR, 100 OHM																						
CHECKED BY		DATE																								
APPROVED BY JCOMERC I		DATE 2010/04/12		 MOLEX INCORPORATED																						
MATERIAL NO.		DOCUMENT NO.																								
SIZE B		SEE SHEET 6			SD-46720-0000		SHEET NO. 5 OF 6																			
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	10	9	8	7	6	5	4	3	2	1			
F	PART NUMBER	CIRCUIT SIZE	PCB A THK (in)	PCB B THK (in)	DIM A						F		
	46720 0001	64	.062	.062	58.8								
	46720 0002	64	.093	.093	58.8								
	46720 0003	64	.110	.110	58.8								
	46720 0004	64	.125	.125	58.8								
	46720 0005	64	.062	.093	58.8								
	46720 0006	64	.062	.110	58.8								
	46720 0007	64	.062	.125	58.8								
	46720 0008	64	.093	.110	58.8								
	46720 0009	64	.093	.125	58.8								
E	46720 0010	64	.110	.125	58.8						E		
	46720 0011	108	.062	.062	83.2								
	46720 0012	108	.093	.093	83.2								
	46720 0013	108	.110	.110	83.2								
	46720 0014	108	.125	.125	83.2								
	46720 0015	108	.062	.093	83.2								
	46720 0016	108	.062	.110	83.2								
	46720 0017	108	.062	.125	83.2								
D	46720 0018	108	.093	.110	83.2						D		
	46720 0019	108	.093	.125	83.2								
	46720 0020	108	.110	.125	83.2								
	46720 0021	152	.062	.062	107.6								
	46720 0022	152	.093	.093	107.6								
	46720 0023	152	.110	.110	107.6								
	46720 0024	152	.125	.125	107.6								
	46720 0025	152	.062	.093	107.6								
	46720 0026	152	.062	.110	107.6								
C	46720 0027	152	.062	.125	107.6						C		
	46720 0028	152	.093	.110	107.6								
	46720 0029	152	.093	.125	107.6								
	46720 0030	152	.110	.125	107.6								
	46720 0031	196	.062	.062	132								
	46720 0032	196	.093	.093	132								
	46720 0033	196	.110	.110	132								
	46720 0034	196	.125	.125	132								
B	46720 0035	196	.062	.093	132						B		
	46720 0036	196	.062	.110	132								
	46720 0037	196	.062	.125	132								
	46720 0038	196	.093	.110	132								
	46720 0039	196	.093	.125	132								
A	46720 0040	196	.110	.125	132						A		
BOARD THICKNESS (IN)													
SEE SHEET 1 EC NO: UCP2010-2317 DRAWN: TGREGORI CHKD: APPR: JCOMERC I						QUALITY SYMBOLS F=0 F=0 F=0		GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ±1/2°		DIMENSION STYLE MM ONLY DRAWN BY DATE TGREGORI 2010/03/24 CHECKED BY DATE APPROVED BY DATE JCOMERC I 2010/04/12 MATERIAL NO.		SCALE 2:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION TITLE ASSEMBLY EDGELINE COEDGE CONNECTOR, 100 OHM MOLEX INCORPORATED DOCUMENT NO. SD-46720-0000 SHEET NO. 6 OF 6	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
tb_frame_B_P_AM_T Rev. E 2009/06/18													
	9	8	7	6	5	4	3	2	1				

6

5

4

3

2

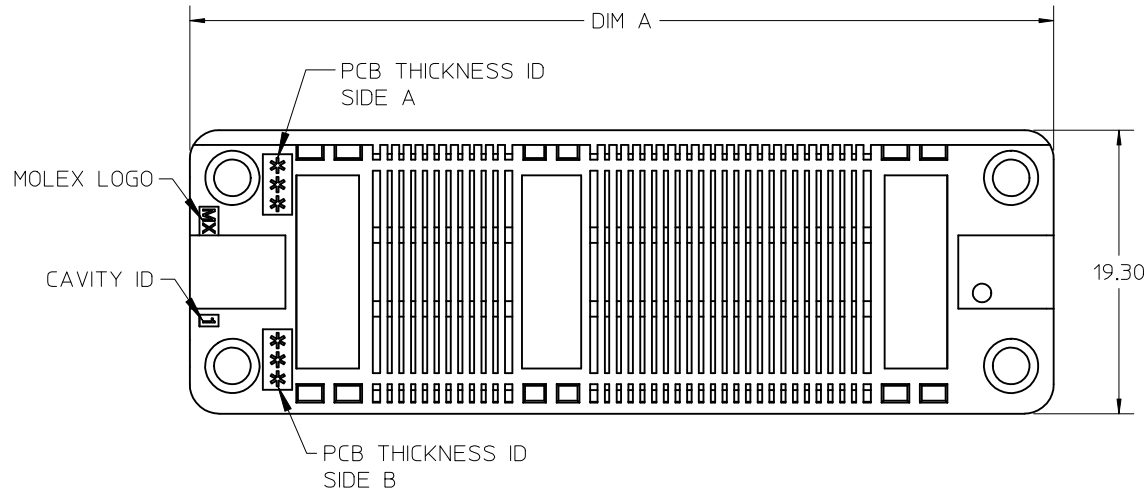
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NOTES:

1. MATERIAL: LCP, UL94V-0, BLACK
TERMINAL: BRASS
2. FINISH: SELECT GOLD: 0.76 μm MIN
OVERALL NICKEL: 3.80 μm MIN
3. ALL DIMENSIONS ARE FOR REFERENCE ONLY
UNLESS OTHERWISE SPECIFIED
4. PRODUCT SPECIFICATION: TBD
5. PACKAGING SPECIFICATION: PK-46720-001
6. OPTIONAL BOARD LOCK MOUNTING RIVET
AVAILABLE. MOLEX PART NUMBER 46720-7710.
MOLEX REMOVAL TOOL NUMBER 638133502.
SEE SD-46720-771 FOR RIVET SALES DRAWING.

D

D

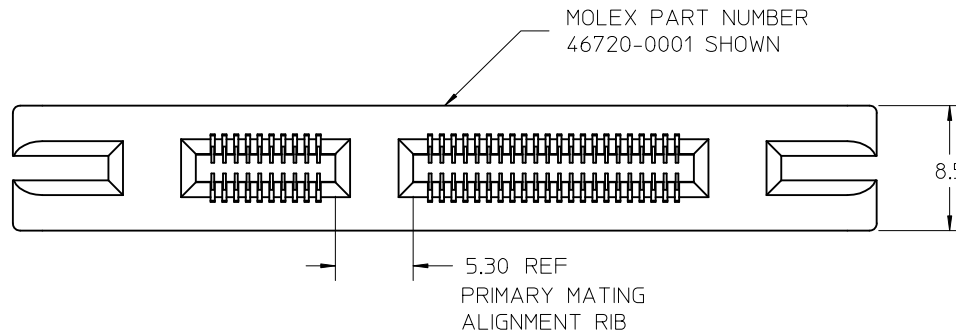


C

C

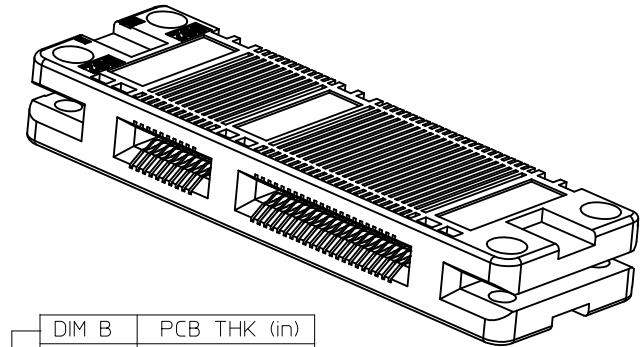
B

B



A

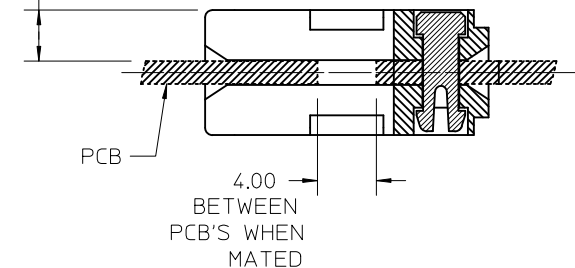
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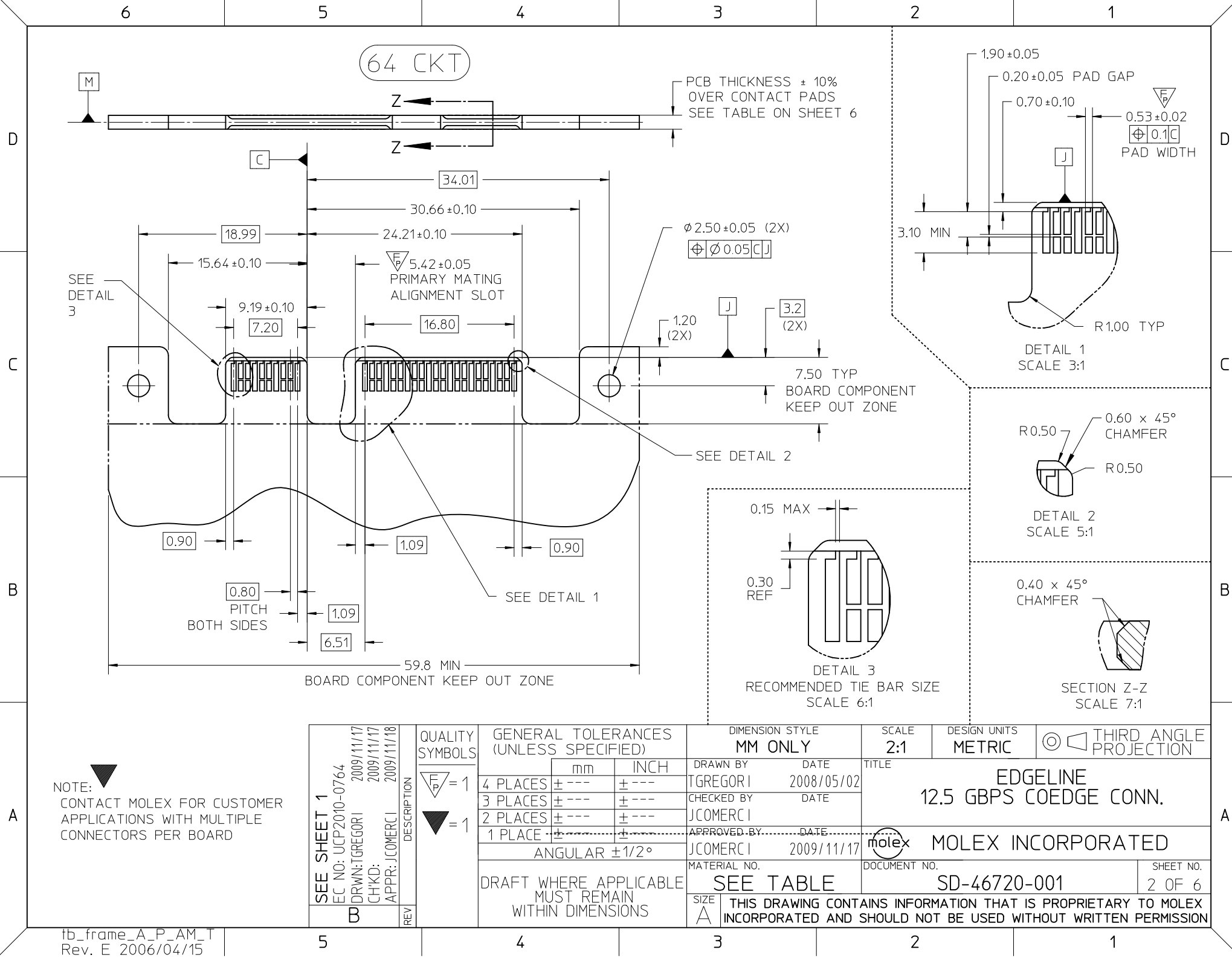
DIM B	PCB THK (in)
3.5	.062"
3.1	.093"
2.9	.110"
2.7	.125"



BOARD LOCK
MOUNTING RIVET
SEE NOTE 6

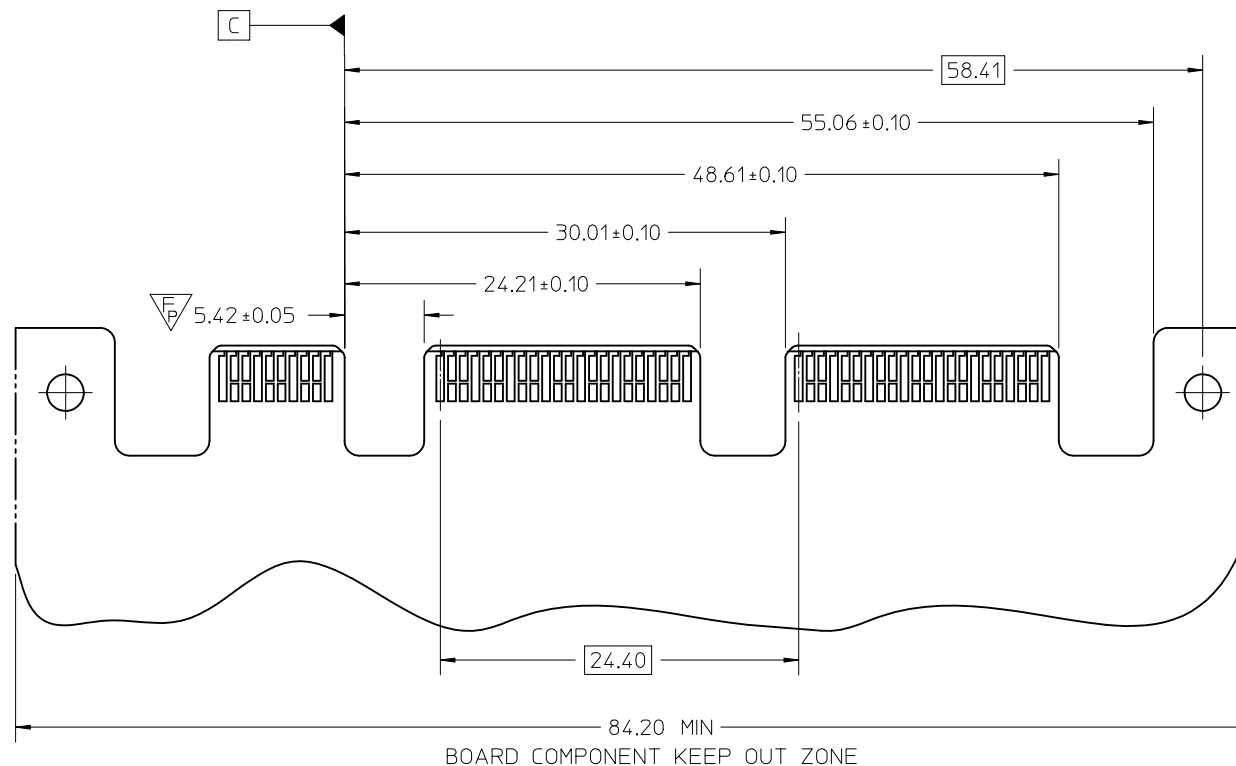


REVISED EC NO: UCP2010-0764 DRWN: TGREGORI CH'KD: 2009/11/17 APPR: JCOMERCI 2009/11/18	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY TGREGORI	DATE 2008/05/02	TITLE EDGELINE 12.5 GBPS COEDGE CONN.				
			4 PLACES	± ---	± ---	CHECKED BY JCOMERCI	DATE					
			3 PLACES	± ---	± ---	APPROVED BY JCOMERCI	DATE 2009/11/17					
			2 PLACES	± ---	± ---	molex MOLEX INCORPORATED						
			1 PLACE	± ---	± ---							
			ANGULAR ±1/2°			MATERIAL NO. SEE SHEET 6		DOCUMENT NO. SD-46720-001		SHEET NO. 1 OF 6		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



108 CKT

ALL DIMENSIONS ARE SAME AS 64 CKT UNLESS
OTHERWISE SPECIFIED BELOW

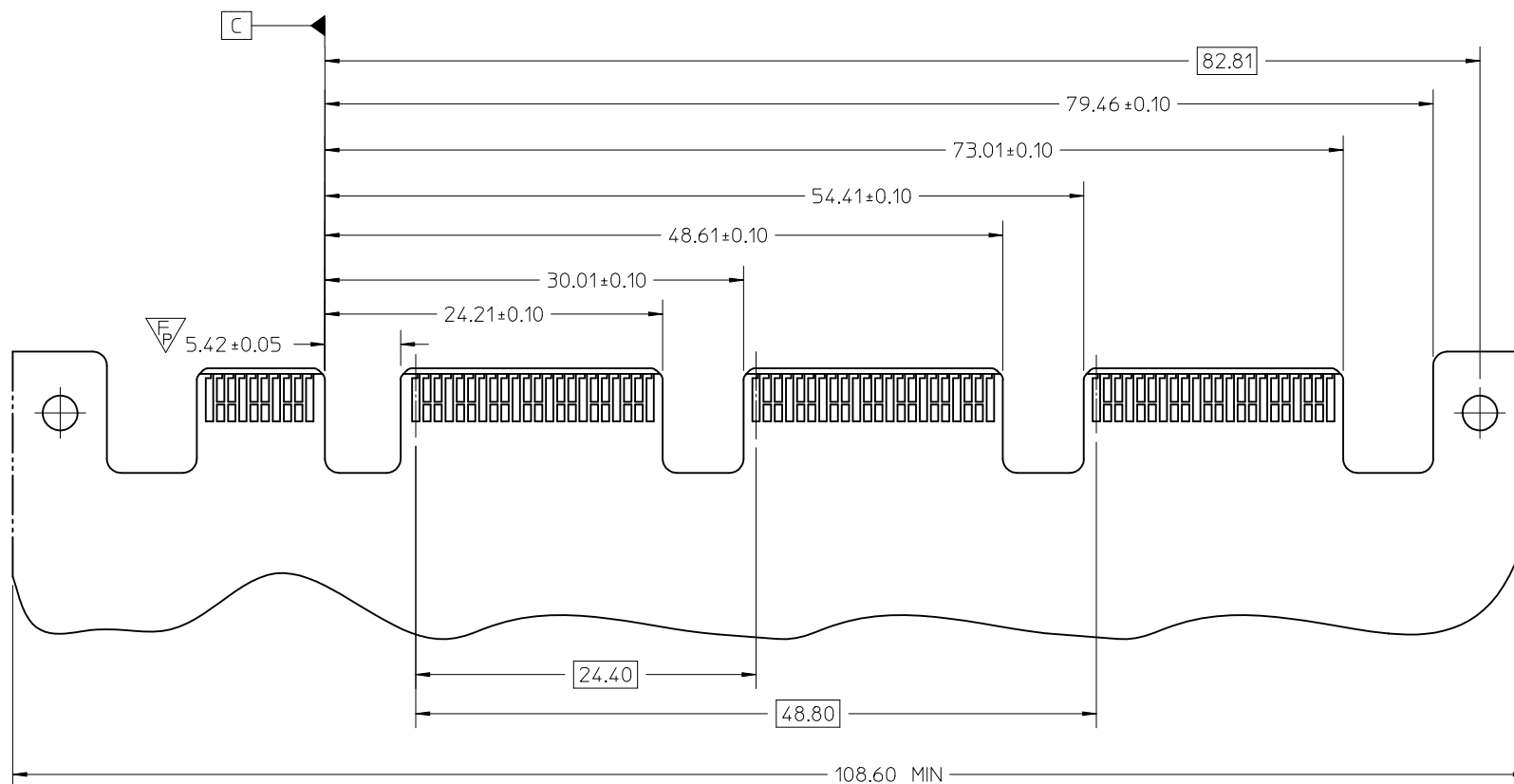


NOTE:
CONTACT MOLEX FOR CUSTOMER
APPLICATIONS WITH MULTIPLE
CONNECTORS PER BOARD

SEE SHEET 1 EC NO: UCP2010-0764 DRWN: TREGORI CHKD: APPR: JCOMERCI	QUALITY SYMBOLS F_P = 1 ▽ = 1	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY TREGORI	DATE 2008/05/02	TITLE EDGELINE 12.5 GBPS COEDGE CONN.				
		4 PLACES	± ---	± ---	CHECKED BY JCOMERCI	DATE					
		3 PLACES	± ---	± ---	APPROVED BY JCOMERCI	DATE 2009/11/17					
		2 PLACES	± ---	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		1 PLACE	± ---	± ---	SEE TABLE		SD-46720-001		3 OF 6		
		ANGULAR ±1/2°			SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											

152 CKT

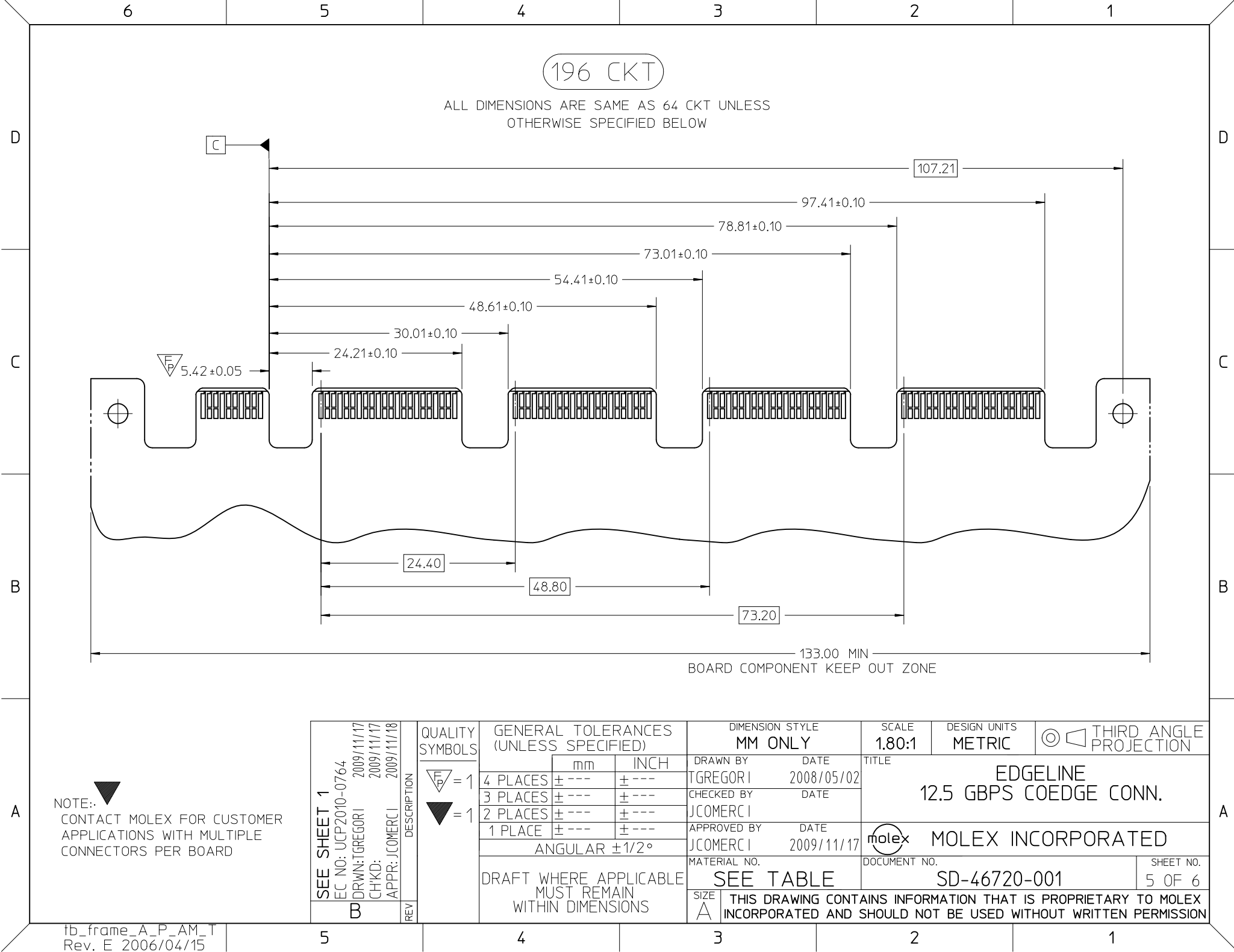
ALL DIMENSIONS ARE SAME AS 64 CKT UNLESS
OTHERWISE SPECIFIED BELOW



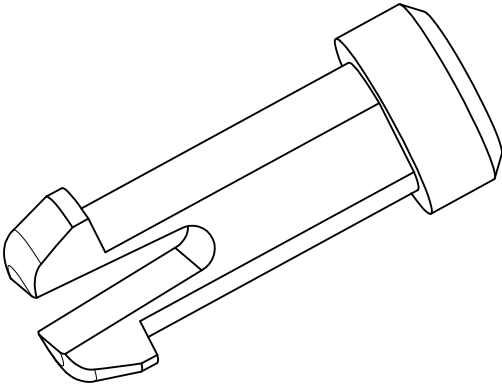
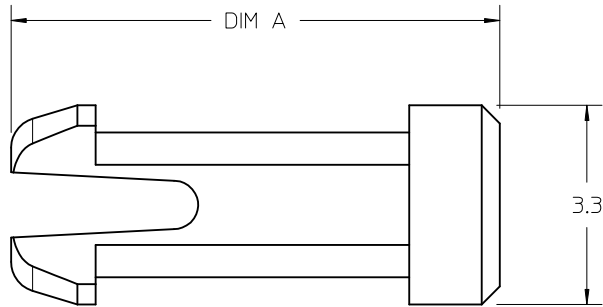
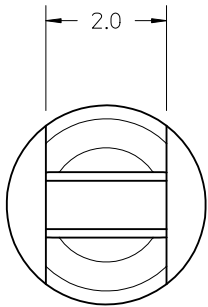
BOARD COMPONENT KEEP OUT ZONE

NOTE:-
CONTACT MOLEX FOR CUSTOMER
APPLICATIONS WITH MULTIPLE
CONNECTORS PER BOARD

SEE SHEET 1 EC NO: UCP2010-0764 DRWN: TREGORI CH'KD: APPR: JCOMERC I	QUALITY SYMBOLS ▽_P = 1 ▽ = 1	DESCRIPTION 2009/11/17 2009/11/17 2009/11/18	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY TREGORI	DATE 2008/05/02	TITLE EDGELINE 12.5 GBPS COEDGE CONN.				
			4 PLACES	± ---	± ---	CHECKED BY JCOMERC I						
			3 PLACES	± ---	± ---	DATE						
			2 PLACES	± ---	± ---	JCOMERC I		MOLEX MOLEX INCORPORATED				
			1 PLACE	± ---	± ---	APPROVED BY JCOMERC I						
			ANGULAR ±1/2°			DATE 2009/11/17		DOCUMENT NO. SD-46720-001				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE TABLE		SHEET NO. 4 OF 6							
	REV		SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



MOLEX PART NUMBER	DIM. A
46720-7710	8.1
46720-7711	9.4



- NOTES:
1. MATERIAL: NYLON 6/6, UL94 V-0 (RMS-19)
COLOR: NATURAL
 2. FOR USE WITH MOLEX EDGELINE COEDGE SERIES 46720.
 3. RIVETS RECEIVED FROM MOLEX IN INDIVIDUAL PLASTIC BAGS WITH QUANTITY 1000 PCS
 4. TO REMOVE RIVET FROM ASSEMBLY USE MOLEX REMOVAL TOOL NUMBER 638133502

REPLACED SD-46720-771		EC NO: UCP2010-2317		DRWN: TGREGORI 2010/03/24		CHKD: 2010/04/12		APPR: JCOMERC 2010/04/12		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 8:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
											= 0		mm	INCH	DRAWN BY TGREGORI		DATE 2010/03/24	TITLE SNAP LOCK PIN EDGELINE COEDGE CONNECTOR		
											= 0	4 PLACES	± ---	± ---	CHECKED BY		DATE			
											= 0	3 PLACES	± ---	± ---	APPROVED BY JCOMERC 2010/04/12		molex MOLEX INCORPORATED			
											2 PLACES	± 0.13	± ---							
												1 PLACE	± 0.25	± ---	DOCUMENT NO. SD-46720-7710					
											ANGULAR ±1/2°			SHEET NO. 1 OF 1						
											DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE TABLE						
														SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					