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Part Number:

0744410010

Status:

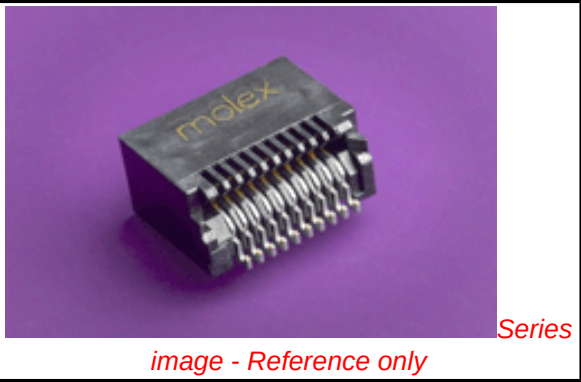
Active

Overview:

sfp_sfp_host_connectors

Description:

0.80mm (.031") Pitch SFP, SFP Plus (SFP+) Host Connector, Z-Axis Pluggable, Right Angle, SMT, 20 Circuits, 0.76µm (30µ") Gold (Au)



Documents:	
3D Model	Product Specification PS-74441-001 (PDF)
Application Specification (PDF)	RoHS Certificate of Compliance (PDF)
Drawing (PDF)	

Agency Certification	
CSA	LR19980
UL	E29179
General	
Product Family	I/O Connectors
Series	74441
Application	Module-to-Board
Component Type	Receptacle
Overview	sfp_sfp_host_connectors
Product Name	Z-Axis Pluggable
Type	N/A
Physical	
Boot Color	N/A
Circuits (Loaded)	20
Circuits (maximum)	20
Circuits Detail	20
Color - Resin	Black
Durability (mating cycles max)	200
Flammability	94V-0
Gender	Receptacle
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PCB Locator	Yes
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
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 (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	No
Ports	1
Surface Mount Compatible (SMC)	Yes

EU RoHS

ELV and RoHS

Compliant

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

74441Series

Mates With

SFP Modules

Use With

EMI Shield, [73927](#) SFP Cage, [86025](#) LC Duplex Cable Assembly, Guide Frame, [73939](#) HSSDC2 Cable Assembly

Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No
Wire Size AWG	N/A

Electrical

Current - Maximum per Contact	0.5A
Grounding to Panel	Yes
Shielded	No
Voltage - Maximum	30V AC (RMS)/DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	40
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

Application Specification	AS-74441-001
Product Specification	PS-74441-001
Sales Drawing	SD-74441-001
Test Summary	TS-74441-002, TS-74441-004, TS-74441-010

This document was generated on 05/19/2010

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SALES ASSEMBLY DRAWINGS FOR SMALL FORM-FACTOR AND Z AXIS PLUGGABLE CONNECTORS

CKT SIZE	PART NUMBER	TOOLED	DESCRIPTION	"A"	"B"	"C"	"D"	MULTI-SOURCE AGREEMENT	CONNECTOR DRAWING	CIRCUIT BOARD DRAWING
20	74441-0001	YES	PLATED PER NOTE 2	1.10/.043	11.00/.433	9.40/.370	9.60/.378	SFP	PAGE 2	PAGE 3
	74441-0004	NO*	PLATED PER NOTE 2	0.76/.030						
	74441-0010	YES	PLATED PER NOTE 3	1.10/.043						
	74441-0014	NO*	PLATED PER NOTE 3	0.76/.030						
	74441-0021	YES	PLATED PER NOTE 4	1.10/.043						
	74441-0031	YES	PLATED PER NOTE 5	1.10/.043						
30	74441-0041	YES	PLATED PER NOTE 6	1.10/.043						
	74441-0007	YES	PLATED PER NOTE 2	1.10/.043	15.00/.591	13.40/.528	13.60/.535	XFP	PAGE 2	PAGE 4
	74441-0017	YES	PLATED PER NOTE 3	1.10/.043						
40	74441-0027	YES	PLATED PER NOTE 4	1.10/.043						
	74441-0005	YES	PLATED PER NOTE 2	1.10/.043	19.00/.748	17.40/.685	17.60/.693		PAGE 2	PAGE 5
	74441-0015	YES	PLATED PER NOTE 3	1.10/.043						
50	74441-0025	YES	PLATED PER NOTE 4	1.10/.043						
	74441-0008	YES	PLATED PER NOTE 2	1.10/.043	23.00/.906	21.40/.843	21.60/.850		PAGE 2	PAGE 6
	74441-0018	YES	PLATED PER NOTE 3	1.10/.043						
	74441-0028	YES	PLATED PER NOTE 4	1.10/.043						
70	74441-0038	YES	PLATED PER NOTE 5	1.10/.043						
	74441-0003	YES	PLATED PER NOTE 2	1.10/.043	31.00/1.220	29.40/1.157	29.60/1.165	XENPAK XPAK X2	PAGE 2	PAGE 7
	74441-0013	YES	PLATED PER NOTE 3	1.10/.043						
	74441-0023	YES	PLATED PER NOTE 4	1.10/.043						
	74441-0033	YES	PLATED PER NOTE 5	1.10/.043						

NOTES

1. MATERIAL:

HOUSING - HIGH TEMPERATURE THERMOPLASTIC GLASS FILLED, UL 94V-0, BLACK
TERMINALS - COPPER ALLOY

2. PLATING:

CONTACT AREA - 0.38 μ m MIN GOLD OVER 2.54 μ m MIN NICKEL
SOLDER FOOT AREA - 2.54 - 5.09 μ m TIN OVER 2.54 μ m MIN NICKEL.

3. PLATING:

CONTACT AREA - 0.76 μ m MIN GOLD OVER 2.54 μ m NICKEL
SOLDER AREA - 2.54 -5.09 μ m TIN OVER 2.54 μ m MIN NICKEL

4. PLATING:

CONTACT AREA - 0.76 μ m MIN GOLD OVER 2.54 μ m NICKEL; LUBRICATED
SOLDER AREA: GOLD FLASH OVER 2.54 μ m MIN NICKEL.

5. PLATING:

CONTACT AREA - 0.76 μ m MIN GOLD OVER 2.54 μ m NICKEL,
SOLDER AREA: GOLD FLASH OVER 2.54 μ m MIN NICKEL.

6. PLATING:

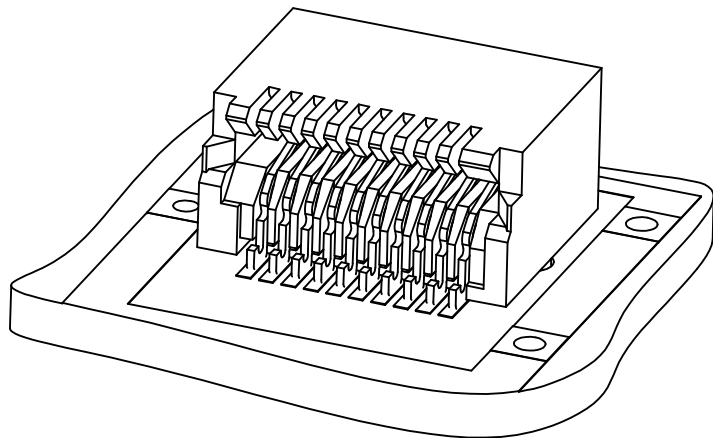
CONTACT AREA - 0.38 μ m MIN GOLD OVER 2.54 μ m NICKEL,
SOLDER AREA: GOLD FLASH OVER 2.54 μ m MIN NICKEL.

7. TERMINAL SOLDER FEET TO BE COPLANAR WITHIN 0.10/.004 FOR 20, 30 AND 40 CIRCUIT CONNECTORS
TERMINAL SOLDER FEET TO BE COPLANAR WITHIN 0.15/.006 FOR 70 CIRCUIT CONNECTOR

8. * CONTACT PLANT FOR MORE INFORMATION

9. DATE CODE: 4 DIGIT (3 DIGIT DATE, 1 DIGIT YEAR)

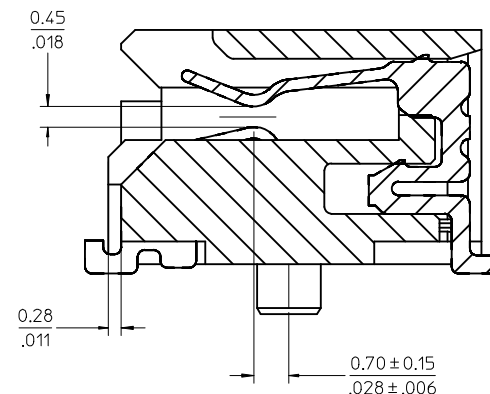
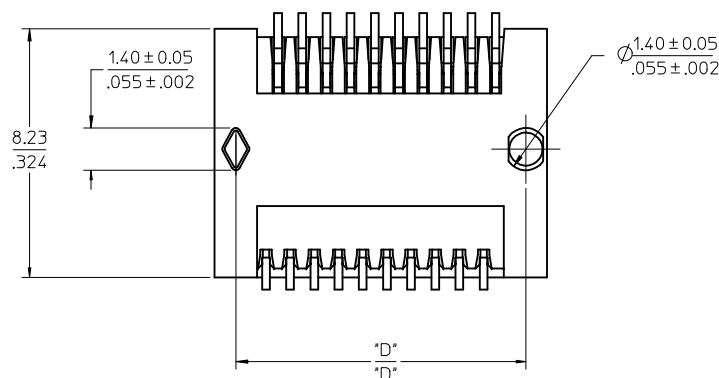
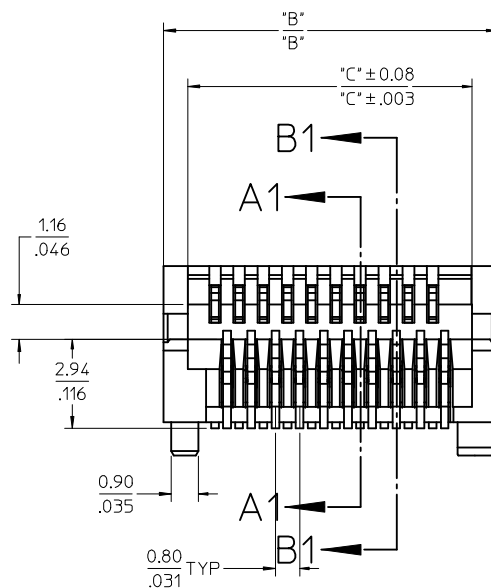
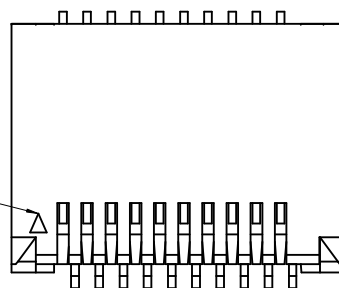
10. CIRCUIT 1 IDENTIFIER LOCATED ON ALL PART NUMBERS



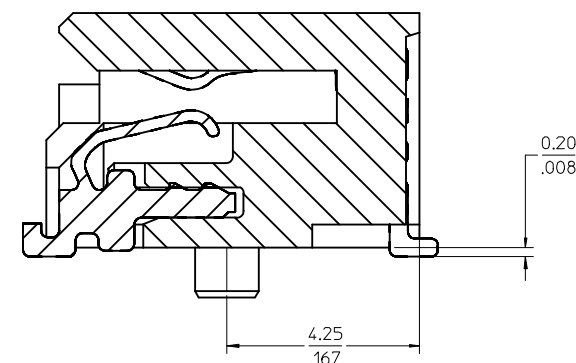
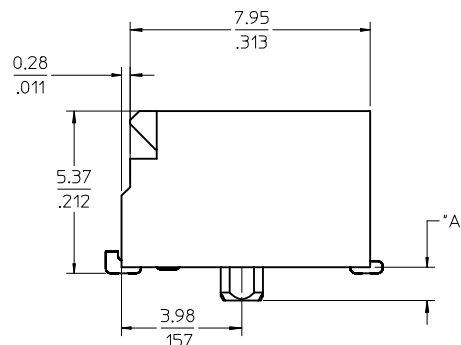
ADD -0041 EC NO: UCP2009-1455 DRAWN BY: DRWN:MS BARRA CHKD:BSMART APPR:SMILLER REV T	DESCRIPTION 2009/01/15 2009/01/15 2009/01/16	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
			4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± .005 1 PLACE ± 0.25 ± .010 ANGULAR ± 1/2°	mm INCH	DRAWN BY HAVERY CHECKED BY KSWEENEY APPROVED BY MBANAKIS	DATE 00/04/06 DATE 00/04/06 DATE 00/04/06	TITLE SALES ASSEMBLY Z AXIS PLUGGABLE PCB CONNECTOR					
							MOLEX INCORPORATED					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		DOCUMENT NO. SD-74441-001		SHEET NO. 1 OF 7			
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

13 12 11 10 9 8 7 6 5 4 3 2 1

CIRCUIT 1
IDENTIFIER



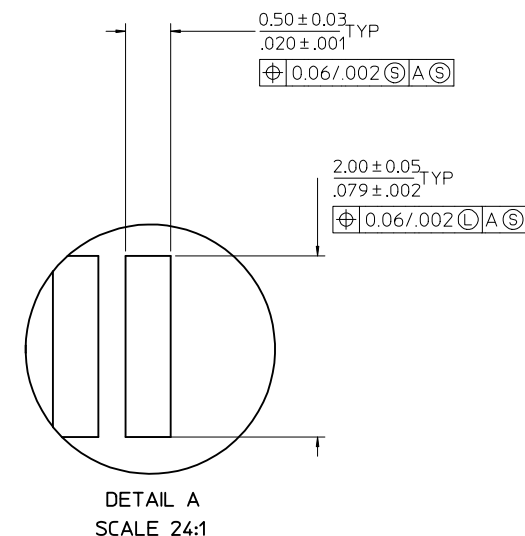
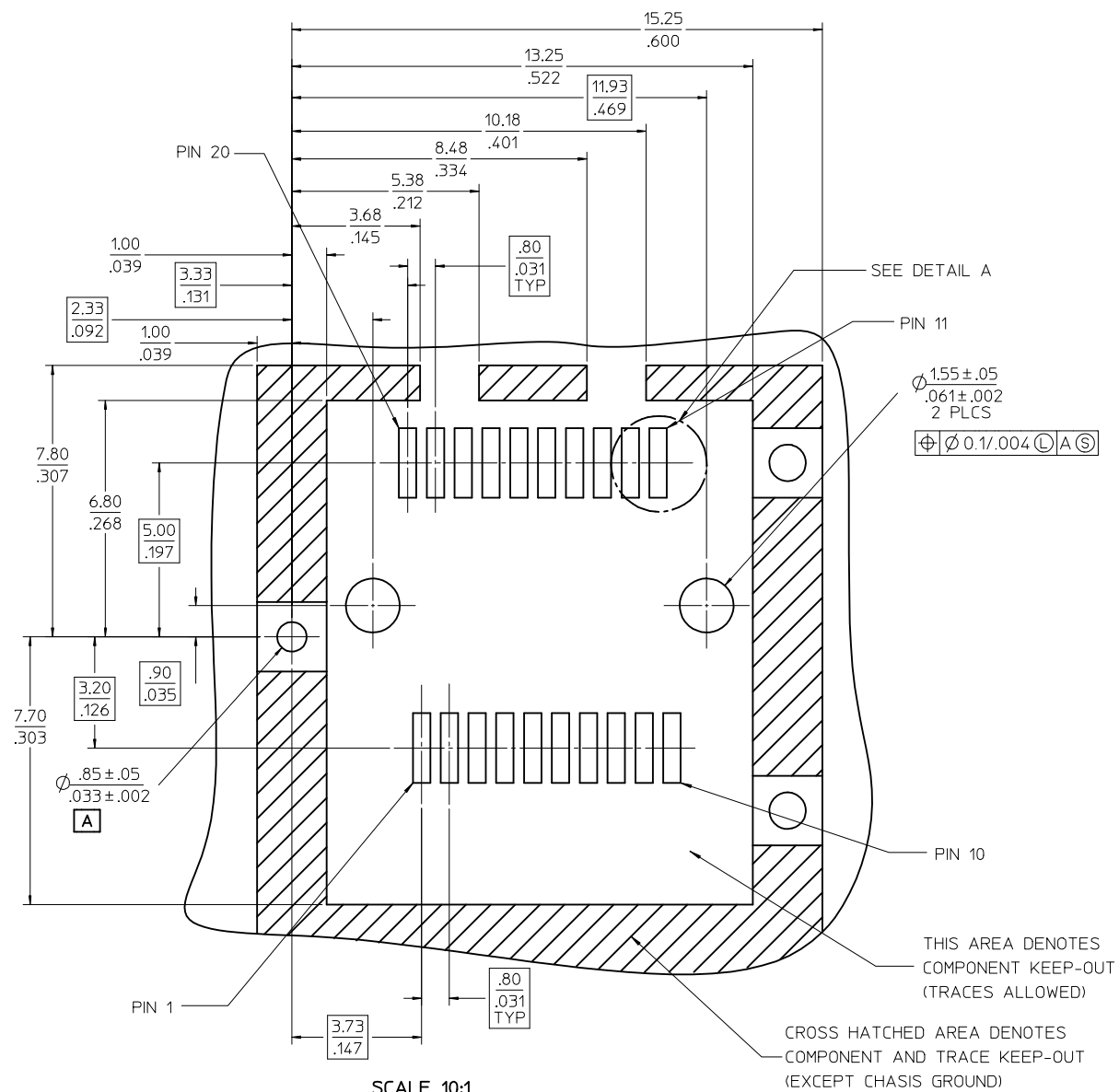
SECTION A1-A1
SCALE 12:1



SECTION B1-B1
SCALE 12:1

SEE SHEET 1 EC NO: UCP2009-1455 DRAWN BY: DRWN:MS BARRA CHKD:BSMART APPR:SMILLER REV: 1	DESCRIPTION 2009/01/15 2009/01/15 2009/01/16	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 6:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY HAVERY	DATE 00/04/06	SALES ASSEMBLY Z AXIS PLUGGABLE PCB CONNECTOR				
			4 PLACES	± ---	± ---	CHECKED BY KSWEENEY	DATE 00/04/06					
			3 PLACES	± ---	± ---	APPROVED BY MBANAKIS	DATE 00/04/06					
			2 PLACES	± 0.13	± .005	MATERIAL NO.		MOLEX INCORPORATED				
			1 PLACE	± 0.25	± .010	DOCUMENT NO.						
			ANGULAR ±1/2°			SEE TABLE		SD-74441-001				
			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				
								SHEET NO. 2 OF 7				

12 11 10 9 8 7 6 5 4 3 2 1



20 CIRCUIT MOTHER BOARD RECOMMENDED PCB LAYOUT

SEE SHEET 1
EC NO: UCP2009-1455
DRAWN BY: IBARRA
CHKD BY: SMART
APPR: MILLER
2009/01/15
2009/01/15
2009/01/16

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± .005	± .0005
3 PLACES	± .005	± .0005
2 PLACES	± 0.13	± .005
1 PLACE	± 0.25	± .010
ANGULAR ± 1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM/IN

DRAWN BY: HAVERY
DATE: 00/04/06

CHECKED BY: KSWEENEY
DATE: 00/04/06

APPROVED BY: MBANAKIS
DATE: 00/04/06

MATERIAL NO.

SIZE: C

SCALE: 8:1

DESIGN UNITS: METRIC

THIRD ANGLE PROJECTION

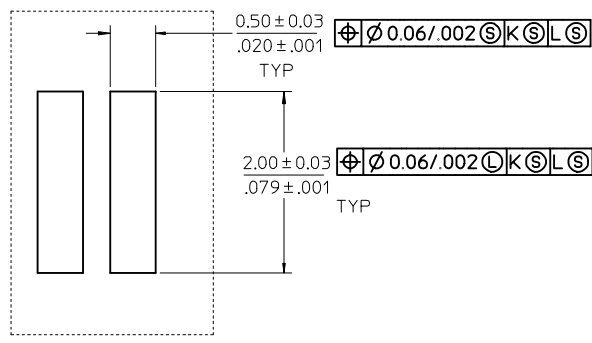
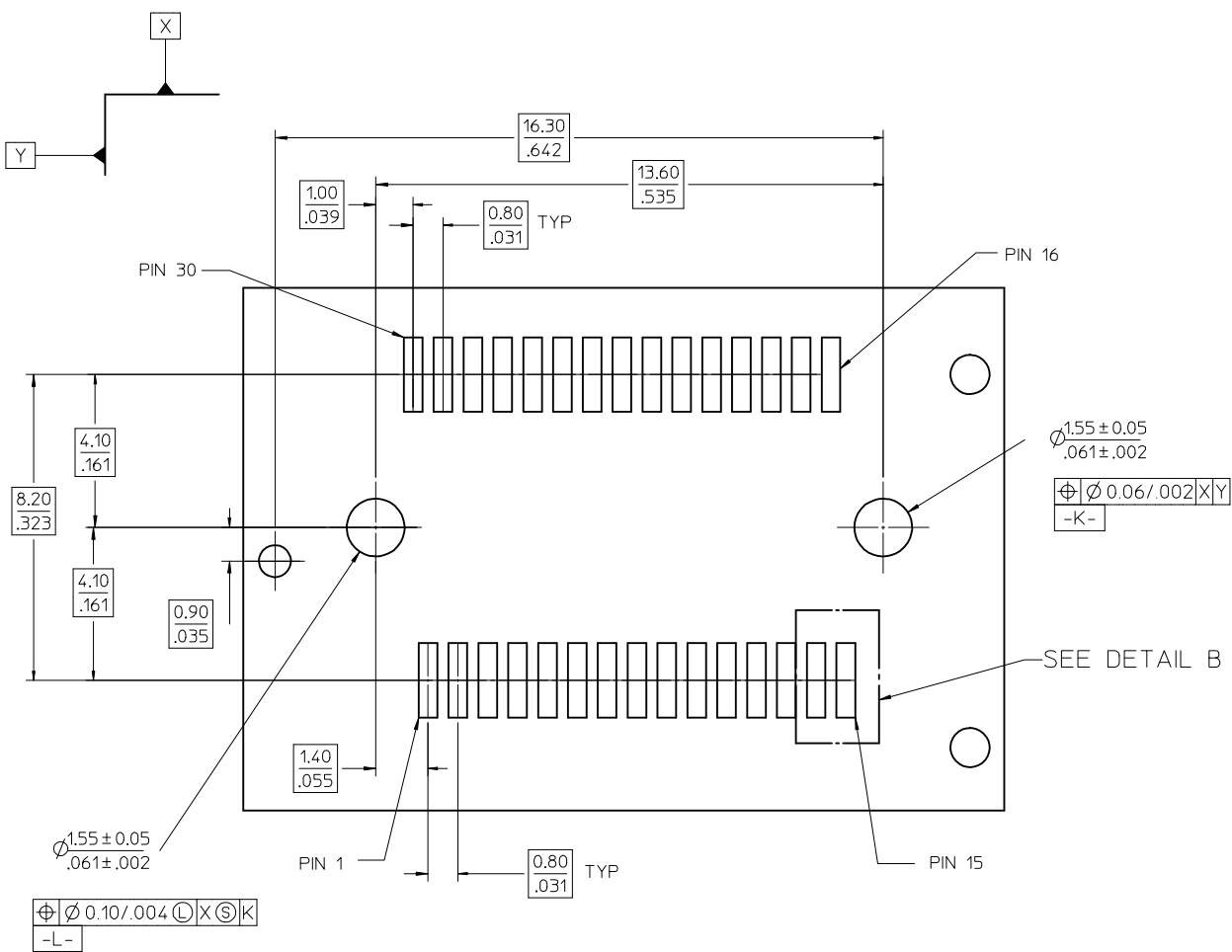
SALES ASSEMBLY
Z AXIS PLUGGABLE
PCB CONNECTOR

MOLEX INCORPORATED

DOCUMENT NO. SD-74441-001

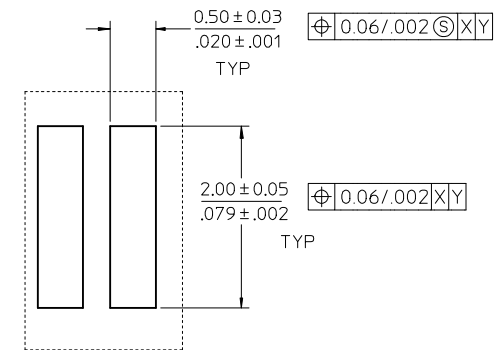
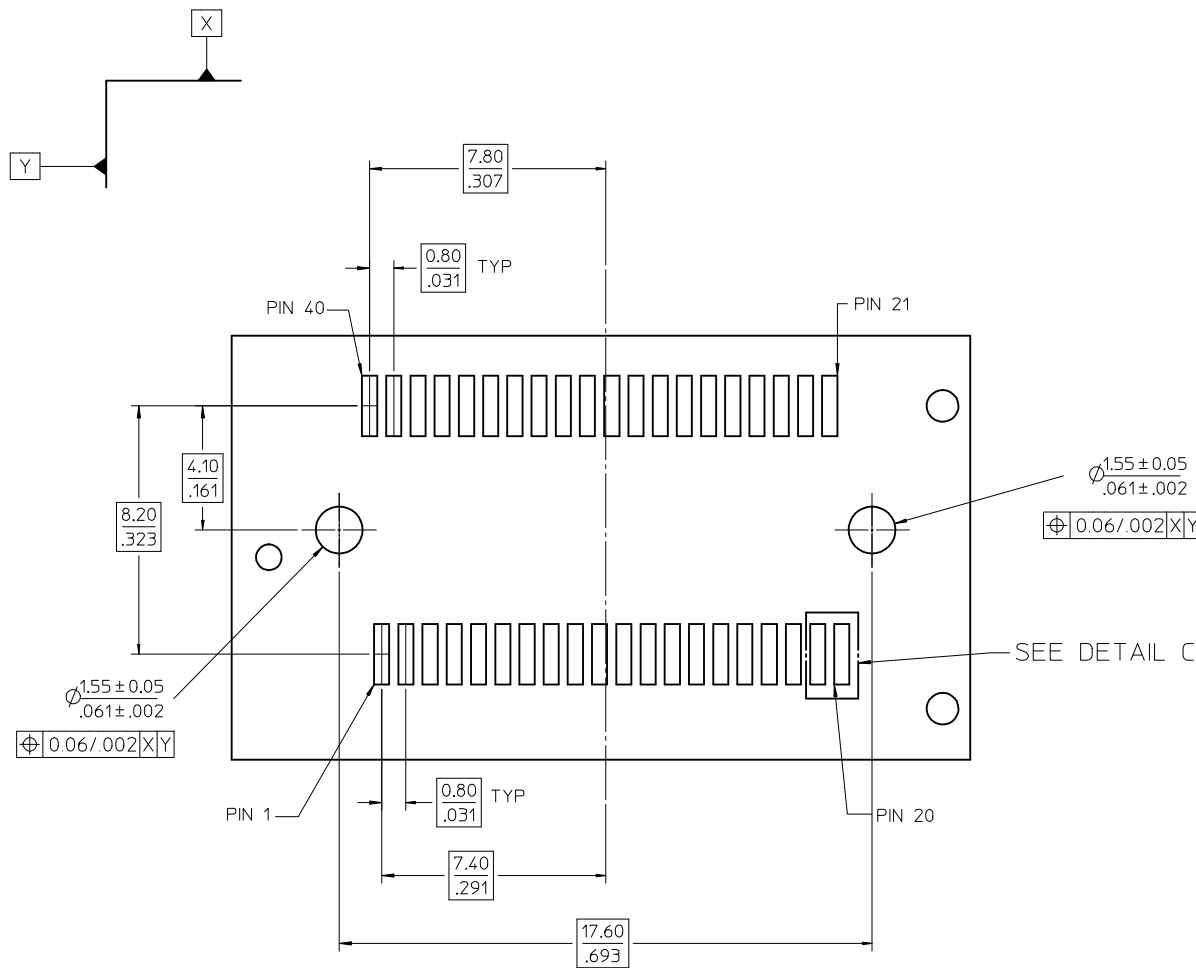
SHEET NO. 3 OF 7

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30 CIRCUIT MOTHER BOARD
RECOMMENDED PCB LAYOUT

SEE SHEET 1 EC NO: UCP2009-1455 T DRWN:MSIBARRA 2009/01/15 CHKD:BSMART 2009/01/15 APPR:SMILLER 2009/01/16	REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 6:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
						DRAWN BY HAVERY		DATE 00/04/06			SALES ASSEMBLY Z AXIS PLUGGABLE PCB CONNECTOR	
						CHECKED BY KSWEENEY		DATE 00/04/06				
						APPROVED BY MBANAKIS		DATE 00/04/06			MOLEX INCORPORATED	
						MATERIAL NO.		DOCUMENT NO.				
						SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

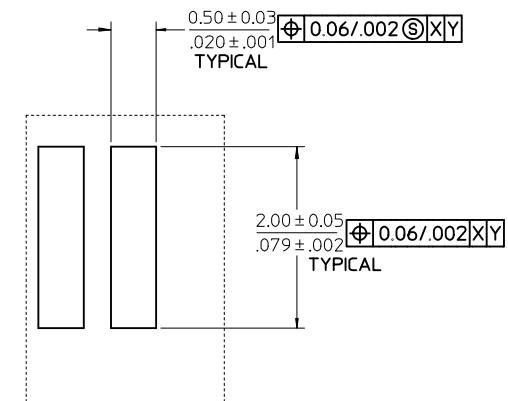
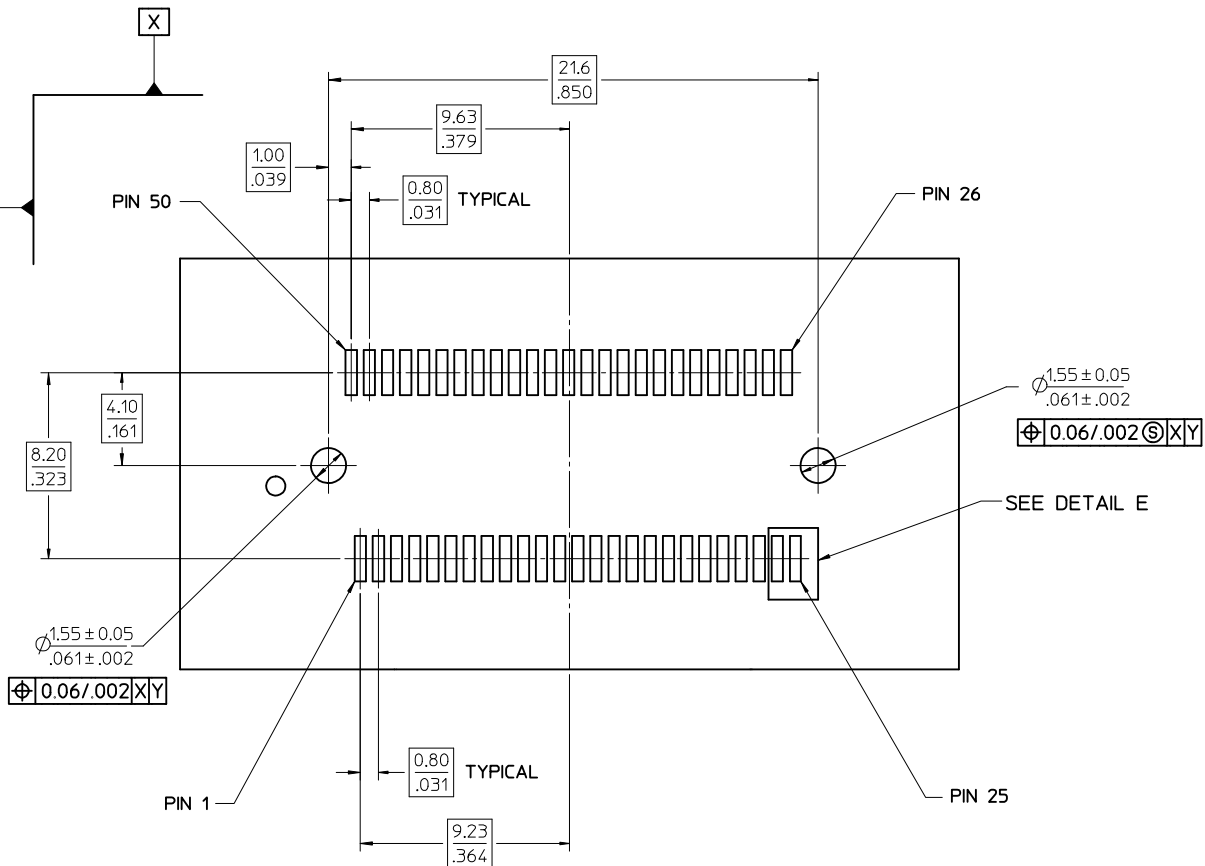


DETAIL C
SCALE 24:1

40 CIRCUIT MOTHER BOARD RECOMMENDED PCB LAYOUT

SEE SHEET 1	EC NO: UCP2009-1455 DRWN:MSIBARRA 2009/01/15 CHKD:BSMART 2009/01/15 APPR:SMILLER 2009/01/16	DESCRIPTION	REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 6:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
						mm	INCH	DRAWN BY HAVERY	DATE 00/04/06	TITLE	
					4 PLACES	± ---	± ---	CHECKED BY KSWEENEY	DATE 00/04/06	SALES ASSEMBLY Z AXIS PLUGGABLE PCB CONNECTOR MOLEX INCORPORATED	
					3 PLACES	± ---	± ---	APPROVED BY MBANAKIS	DATE 00/04/06		
					2 PLACES	± 0.13	± .005	MATERIAL NO.	DOCUMENT NO.		
					1 PLACE	± 0.25	± .010	SEE TABLE	SD-74441-001		
ANGULAR ± 1/2°			SHEET NO. 5 OF 7								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

50 CIRCUIT MOTHER BOARD RECOMMENDED PCB LAYOUT



SEE SHEET 1	EC NO: UCP2009-1455		2009/01/15		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	DRWN:MSIBARRA		2009/01/15				MM/IN		6:1	METRIC				
	CHKD:BSMART		2009/01/16				DRAWN BY		DATE	TITLE				
	APPR:SMILLER						HAVERY		00/04/06					
							CHECKED BY		DATE	SALES ASSEMBLY Z AXIS PLUGGABLE PCB CONNECTOR				
							KSWEENEY		00/04/06					
							APPROVED BY		DATE	MOLEX MOLEX INCORPORATED				
							MBANAKIS		00/04/06					
							MATERIAL NO.			DOCUMENT NO.		SD-74441-001		
							SEE TABLE			SHEET NO. 6 OF 7				
				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						

