

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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



image - Reference only

Series

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:

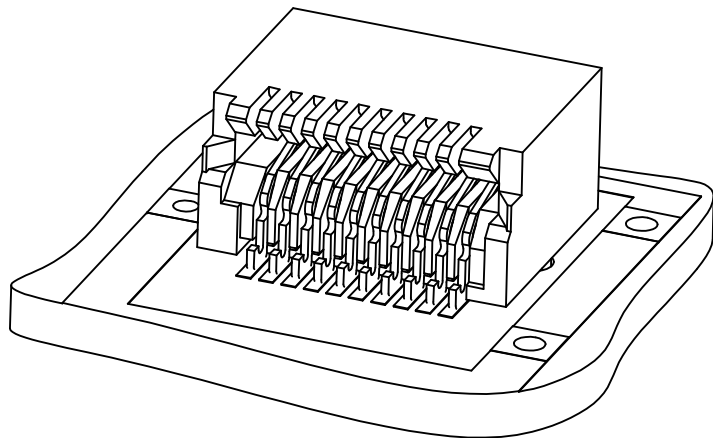
CONTACT AREA - 0.38 μ m MIN GOLD OVER 2.54 μ m NICKEL;
SOLDER AREA: GOLD FLASH OVER 2.54 μ m MIN NICKEL.

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)

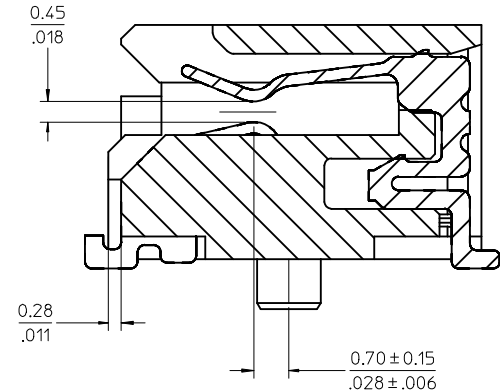
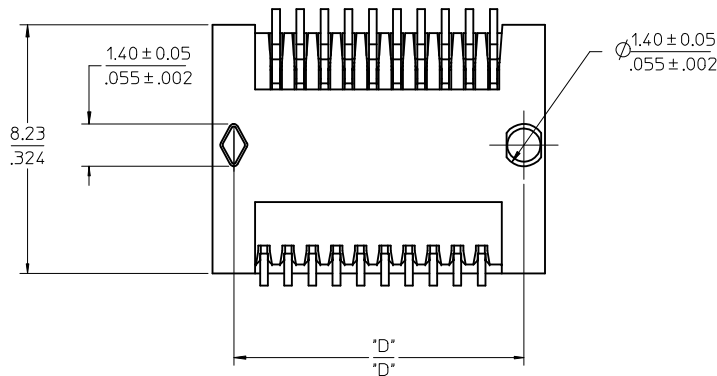
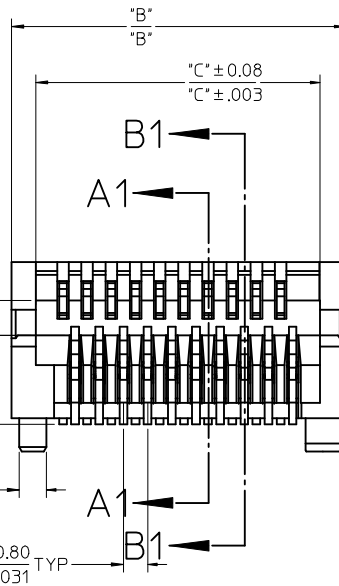
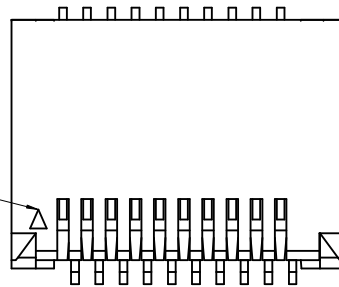
10. CIRCUIT 1 IDENTIFIER LOCATED ON ALL PART NUMBERS



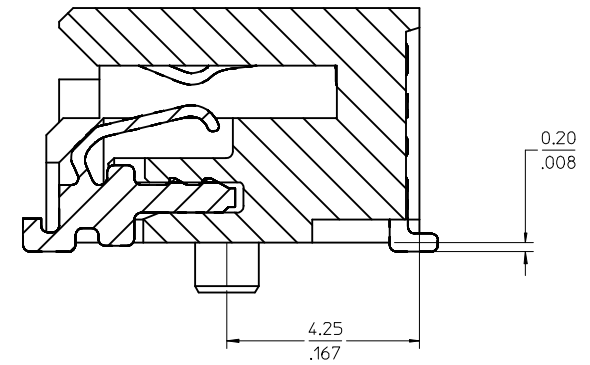
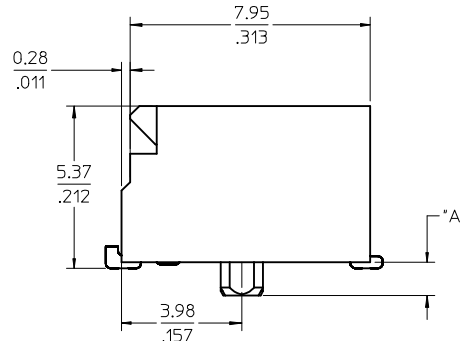
ADD -0041 EC NO: UCP2009-1455 DRWN:MS BARRA 2009/01/15 CHKD:BSMART 2009/01/15 APPR:SMILLER 2009/01/16 REV T	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM/IN		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY HAVERY	DATE 00/04/06				
			4 PLACES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

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

CIRCUIT 1
IDENTIFIER



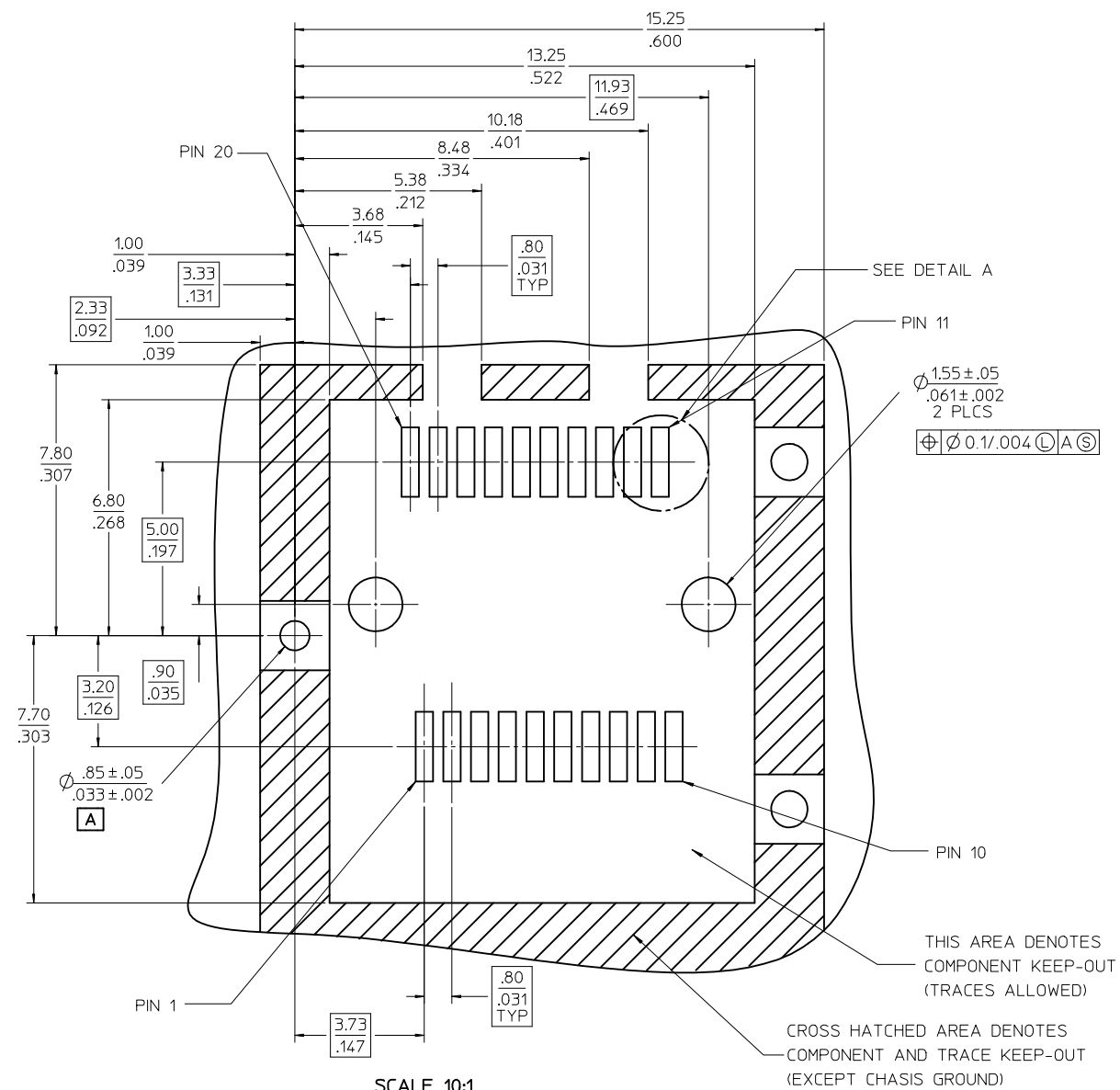
SECTION A1-A1
SCALE 12:1



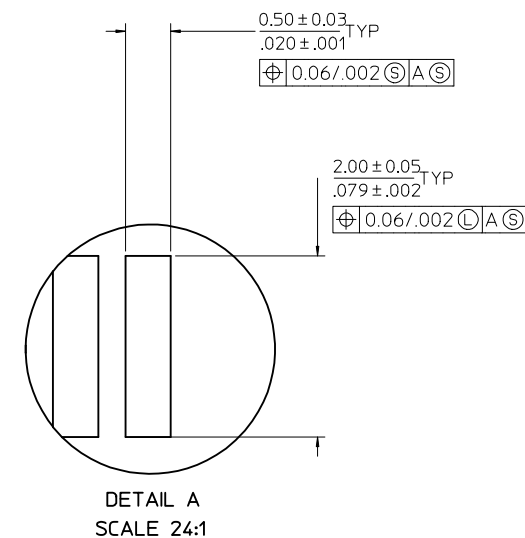
SECTION B1-B1
SCALE 12:1

SEE SHEET 1 EC NO: UCP2009-1455 DRAWN BY: DRWN:SBARRA 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 6:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY HAVERY	DATE 00/04/06	TITLE 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.	DOCUMENT NO.		
			1 PLACE	± 0.25	± .010	SD-74441-001		SHEET NO. 2 OF 7	
			ANGULAR ±1/2°			SEE TABLE		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			C						

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

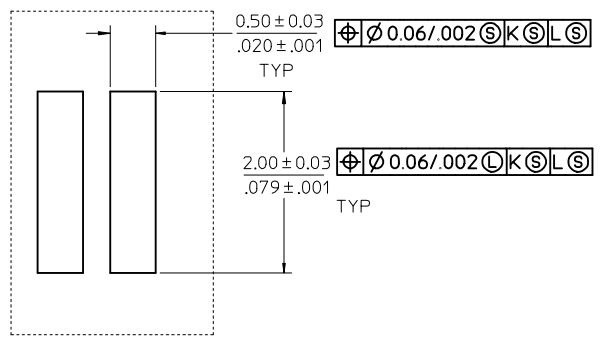
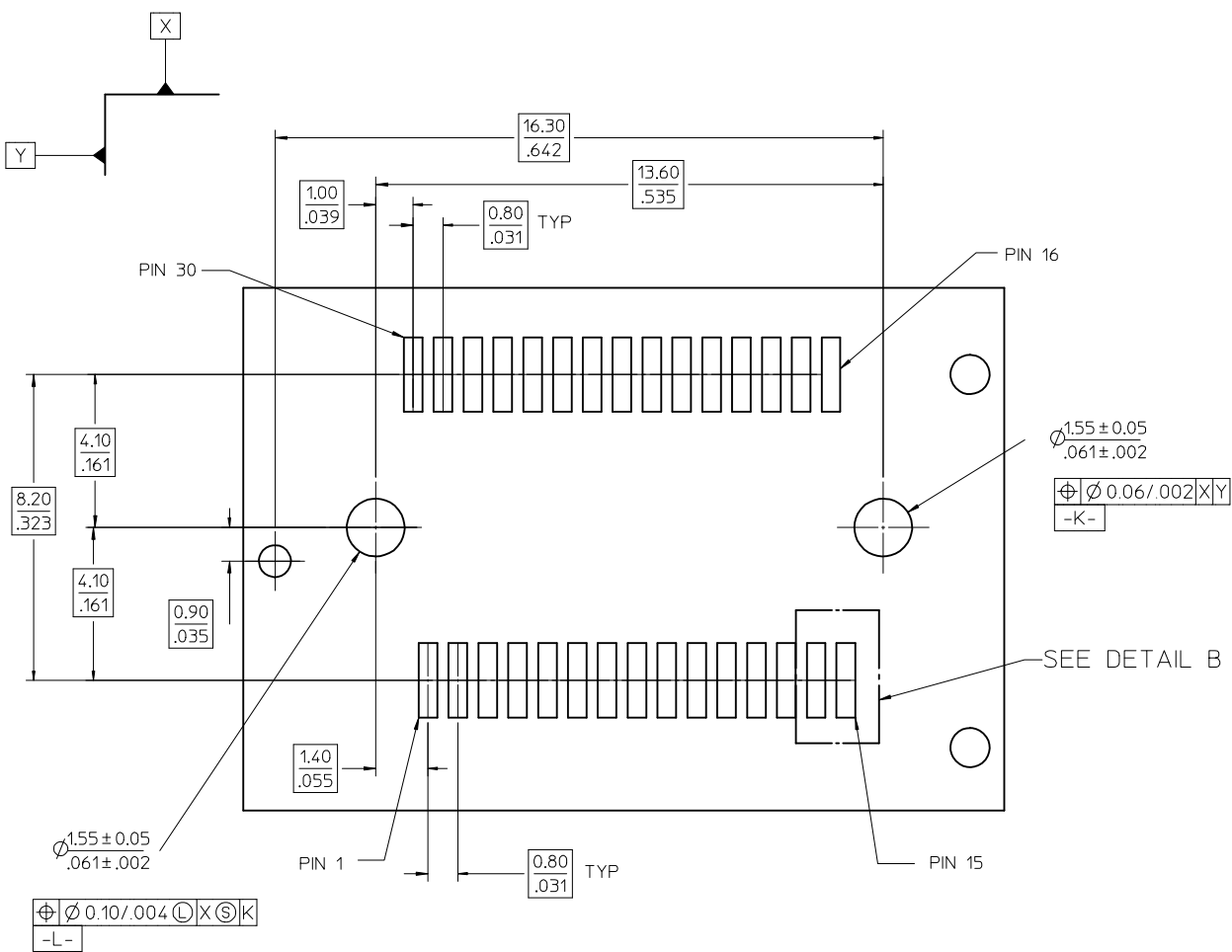


SCALE 10:1



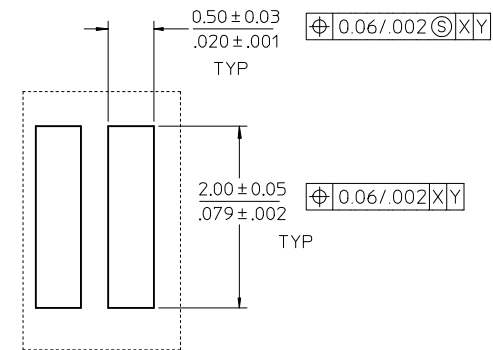
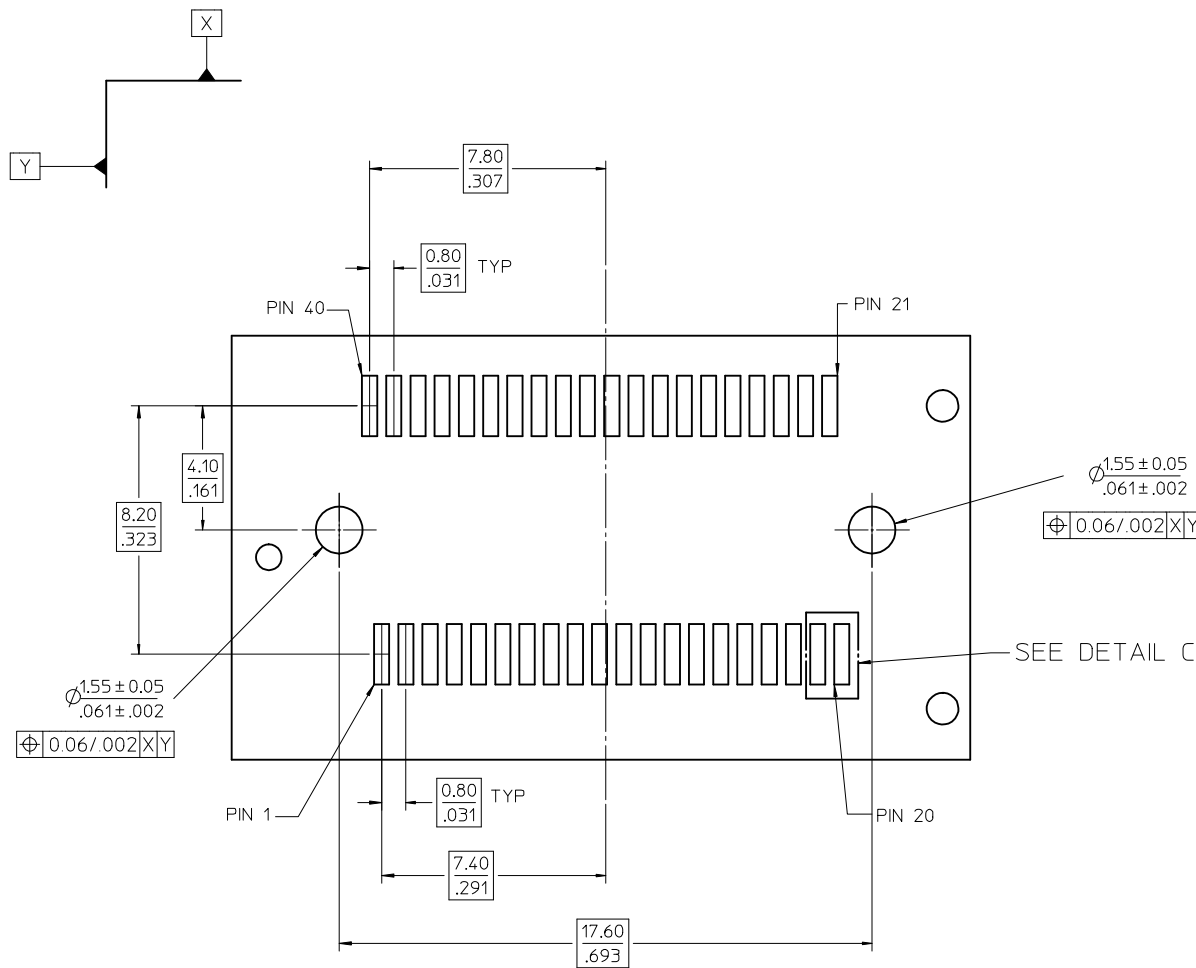
20 CIRCUIT MOTHER BOARD RECOMMENDED PCB LAYOUT

SEE SHEET 1 EC NO: UCP2009-1455 DRAWN BY: IBARRA CHKD BY: SMART APPR: MILLER 2009/01/15 2009/01/15 2009/01/16	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 8:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
					DRAWN BY DATE		TITLE			
					HAVERY 00/04/06		SALES ASSEMBLY			
					CHECKED BY DATE		Z AXIS PLUGGABLE			
					KSWEENEY 00/04/06		PCB CONNECTOR			
					APPROVED BY DATE		MOLEX INCORPORATED			
		MBANAKIS 00/04/06		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		ANGULAR ±1/2°		SEE TABLE		SD-74441-001		3 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						



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	SALES ASSEMBLY Z AXIS PLUGGABLE PCB CONNECTOR MOLEX INCORPORATED		
				4 PLACES	± --- ± ---	DRAWN BY HAVERY	DATE 00/04/06	TITLE					
				3 PLACES	± --- ± ---	CHECKED BY KSWEENEY	DATE 00/04/06						
				2 PLACES	± 0.13 ± .005	APPROVED BY MBANAKIS	DATE 00/04/06						
				1 PLACE	± 0.25 ± .010	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-74441-001					SHEET NO. 4 OF 7	
				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					

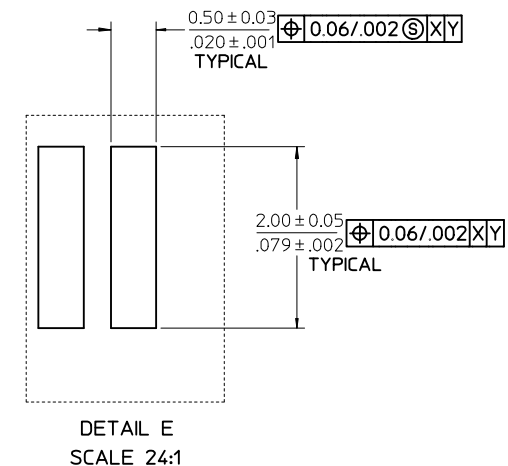
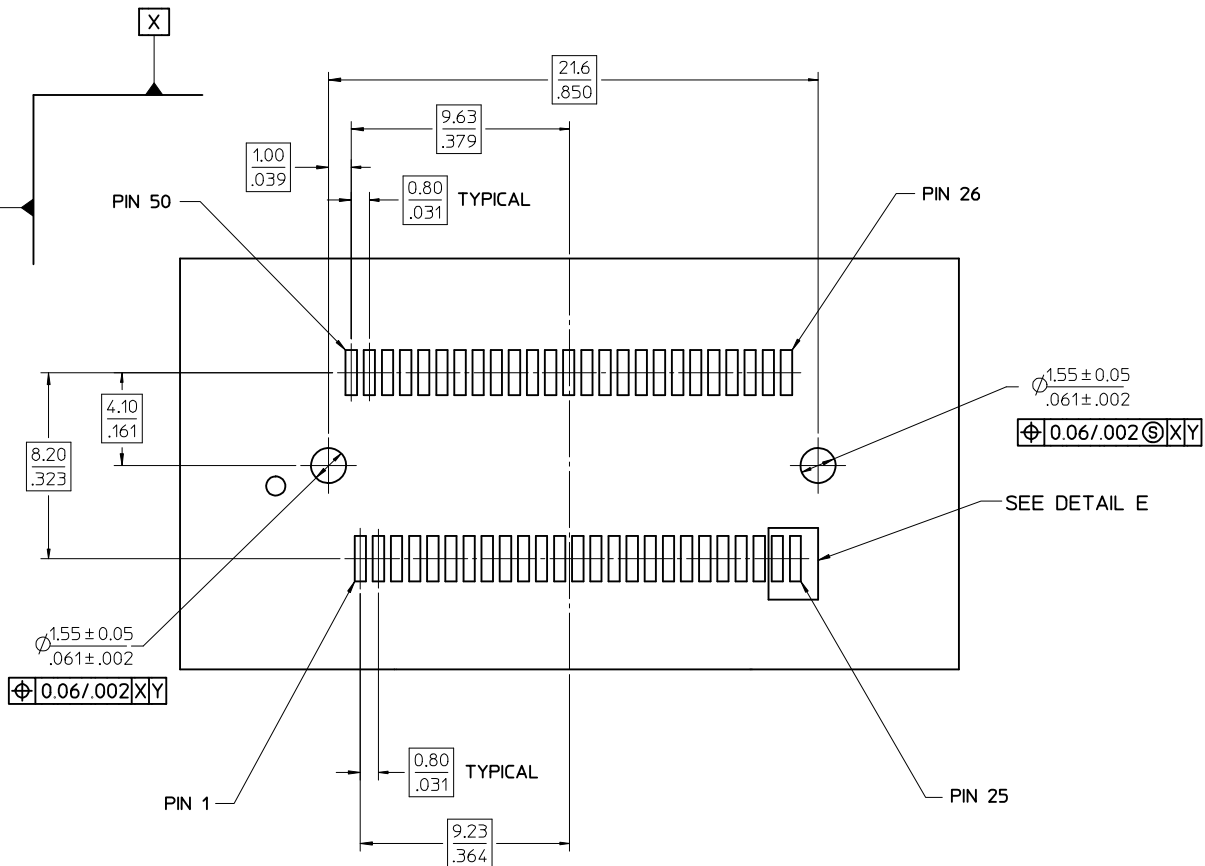


DETAIL C
SCALE 24:1

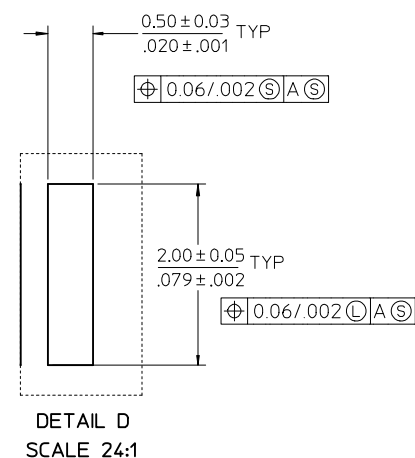
40 CIRCUIT MOTHER BOARD RECOMMENDED PCB LAYOUT

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



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А