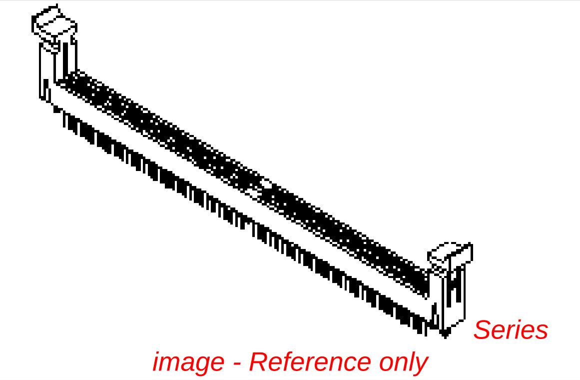
Part Number:	**0877051021**
Status:	**Active**
Description:	1.00mm (.039") Pitch DDR-II DIMM Socket, Vertical, Center Keys, 3.18mm (.125") Tail Length, Beige Latches, 0.38µm (15µ") Gold (Au) Plating, with Beveled Metal Pins, 240 Circuits, Lead-Free



Series

image - Reference only

Documents:

3D Model	Product Specification PS-87705-002 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	1409726
UL	E29179

General

Product Family	Memory Module Sockets
Series	87705
Comments	<LI>Latches in Beige Color
Component Type	Socket
JEDEC Outline	MO-237
Product Name	DDR2 DIMM

Physical

Circuits (Loaded)	240
Color - Resin	Black, Natural
Durability (mating cycles max)	25
Entry Angle	Vertical (Top Entry)
Flammability	94V-0
Keying to Mating Part	Yes
Material - Metal	Brass, Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
PC Tail Length (in)	0.125 In
PC Tail Length (mm)	3.18 mm
PCB Retention	Yes
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.40 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.039 In
Pitch - Mating Interface (mm)	1.00 mm
Plating min: Mating (µin)	15.2
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	101.6
Plating min: Termination (µm)	2.54
Temperature Range - Operating	-10°C to +85°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	30V
Voltage Key	1.8V, Center

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1

EU RoHS

China RoHS

ELV and RoHS Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free Status

Not Reviewed

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
87705Series

Mates With
JEDEC standard 1.27mm modules

Process Temperature max. C	260

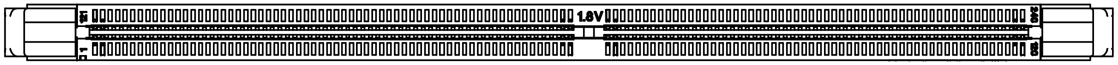
Material Info

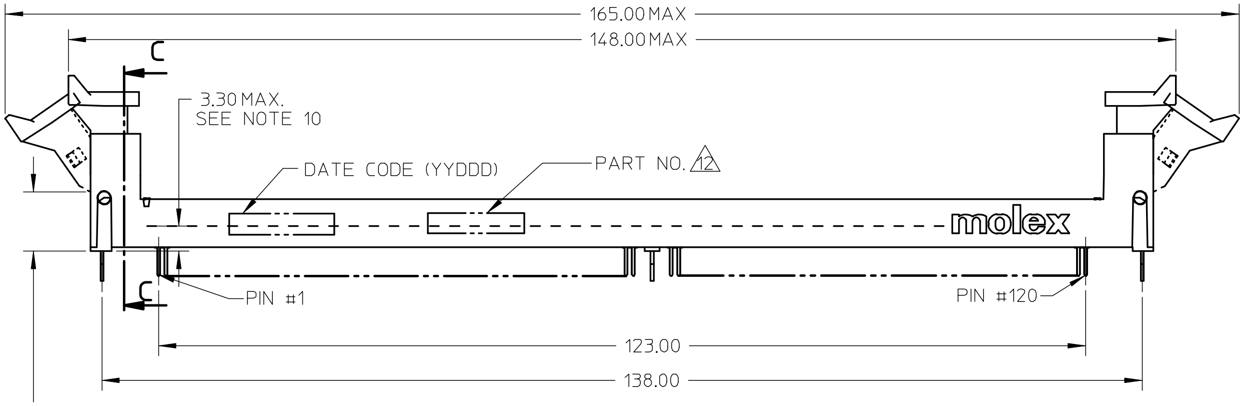
Reference - Drawing Numbers

Product Specification	PS-87705-002
Sales Drawing	SD-87705-001

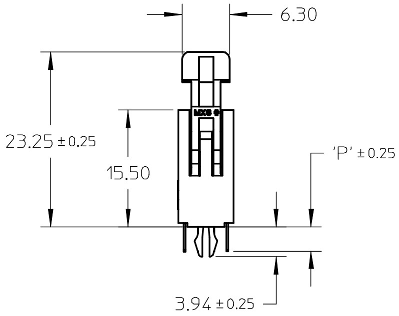
NOTES:

1. MATERIALS
   HOUSING - HIGH TEMP. NYLON GLASS FILLED, UL 94V-0
   COLOR: BLACK
   EJECTOR - HIGH TEMP. NYLON GLASS FILLED, UL 94V-0
   COLOR: SEE TABLE
   TERMINAL - COPPER ALLOY
2. PLATING - SEE TABLE IN SHEET 5 & 6.
3. CARD SLOT ACCEPTS 1.27±0.10 MM MODULE THICKNESS. (MEASURED OVER P.C. PADS)
4. RECOMMENDED MODULE LAYOUT SHALL BE AS PER JEDEC MO-237.
5. REFER TO PRODUCT SPEC. PS-87705-002 FOR PERFORMANCE SPECIFICATIONS.
6. PRODUCT SHALL BE PACKED IN TRAY.
7. PRODUCT SHALL HAVE DATE CODE STAMPED ON SIDE OF HOUSING.
8. KEEP OUT AREA IS THE AREA WHERE THE CONNECTOR IS MOUNTED ONTO THE PCB WHICH DOES NOT INCLUDE THE LATCH.
9. REFER TO CRITICAL JEDEC INFORMATION FOR SOCKET OUTLINE PER SO-001.
10. DIMM MODULE SEATING PLANE FROM TOP OF PCB.
11. CONTACT MOLEX FOR AVAILABILITY OF PRODUCT OPTIONS.
12. (in triangle) PART NUMBER SHALL BE MARKED LEGIBLY AS 87705-****





5.00 MIN
LATCH KEEP
OUT AREA



ADD NOTE @SHT4 C1
EC NO: S2008-1044
DRWN:CMTEO 2008/05/15
CH'KD:CGTAN 2008/05/15
APPR:SHLENI 2008/05/15
DESCRIPTION
D1
REV

QUALITY SYMBOLS
▼=0
▽ C =0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 5 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

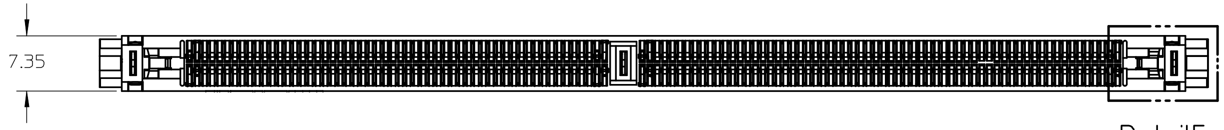
DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

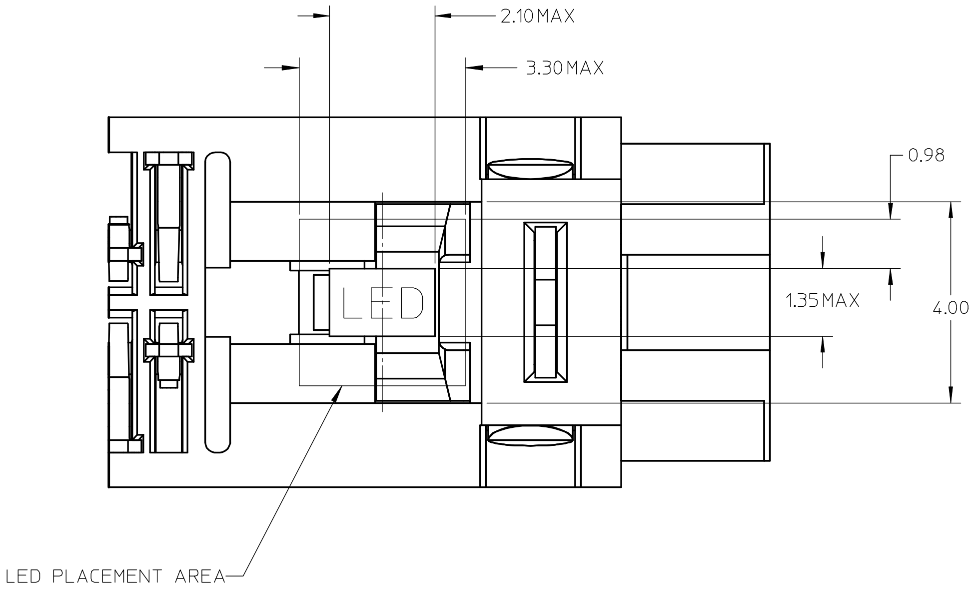
		DATE
DRAWN BY	CGOH	2002/05/09
CHECKED BY	DSOH	2002/07/22
APPROVED BY	SKTOH	2002/07/23

TITLE
DDR2 DIMM, 1.00MM PITCH
240 CKTS
(FORKLOCK VERSION)

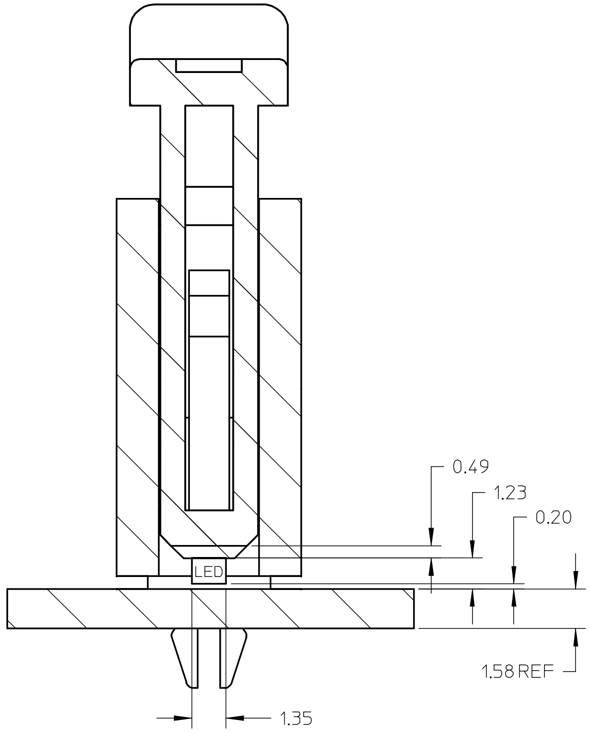
molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87705-001
SHEET NO.: 1 OF 6
SIZE: A3





Detail 5



SECTION C-C

REV	DESCRIPTION			
D1	ADD NOTE @SHT4 C1 EC NO: S2008-1044	DRWN:CMTEO 2008/05/15	CH'KD:CGTAN 2008/05/15	APPR:SHLENI 2008/05/15

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 5 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	SCALE	DESIGN UNITS	
MM ONLY	NTS	METRIC	THIRD ANGLE PROJECTION

DRAWN BY	DATE
CGOH	2002/05/09
CHECKED BY	DATE
DSOH	2002/07/22
APPROVED BY	DATE
SKTOH	2002/07/23

TITLE
DDR2 DIMM, 1.00MM PITCH
240 CKTS
(FORKLOCK VERSION)

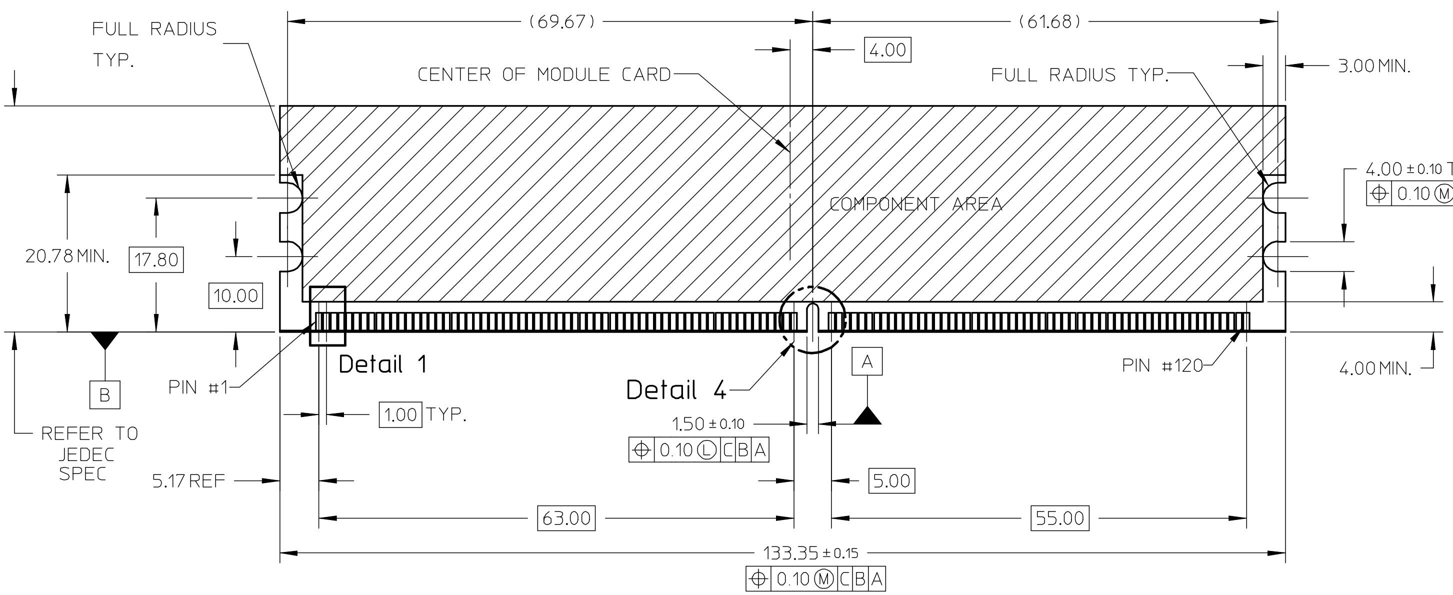
molex MOLEX INCORPORATED

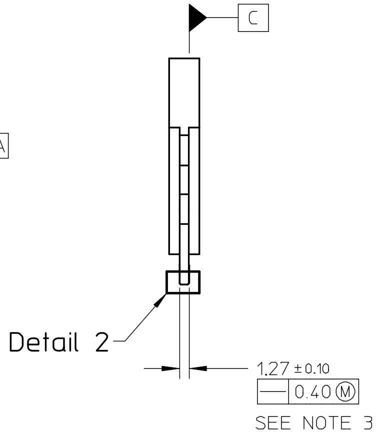
MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87705-001	2 OF 6

SIZE A3

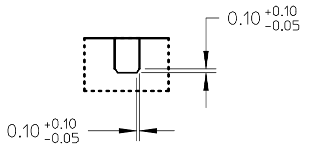
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

RECOMMENDED MODULE LAYOUT

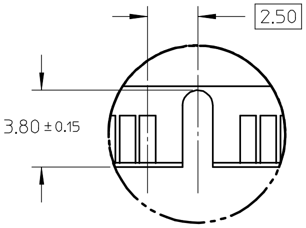




Detail 2



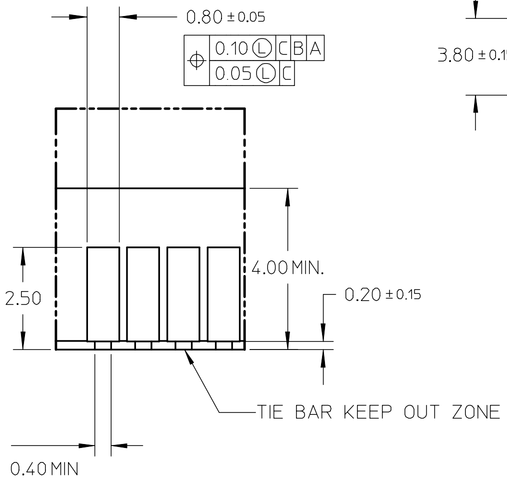
Detail 2



Detail 4

NOTES:

1. MODULE CARD USED FOR TESTS ARE WITH 0.10MM CHAMFER.



Detail 1

REV	DESCRIPTION			
D1	ADD NOTE @SHT4 C1 EC NO: S2008-1044	DRWN:CMTEO 2008/05/15	CH'KD:CGTAN 2008/05/15	APPR:SHLENI 2008/05/15

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 5 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

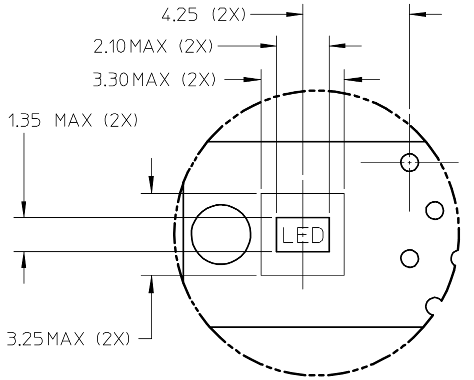
DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	CGOH	2002/05/09
CHECKED BY	DSOH	2002/07/22
APPROVED BY	SKTOH	2002/07/23

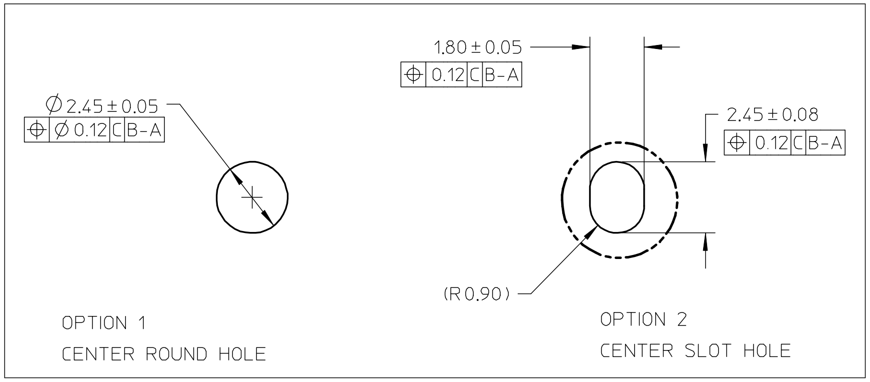
TITLE
DDR2 DIMM, 1.00MM PITCH
240 CKTS
(FORKLOCK VERSION)

molex MOLEX INCORPORATED

MATERIAL NO. SEE TABLE
DOCUMENT NO. SD-87705-001
SHEET NO. 3 OF 6
SIZE A3

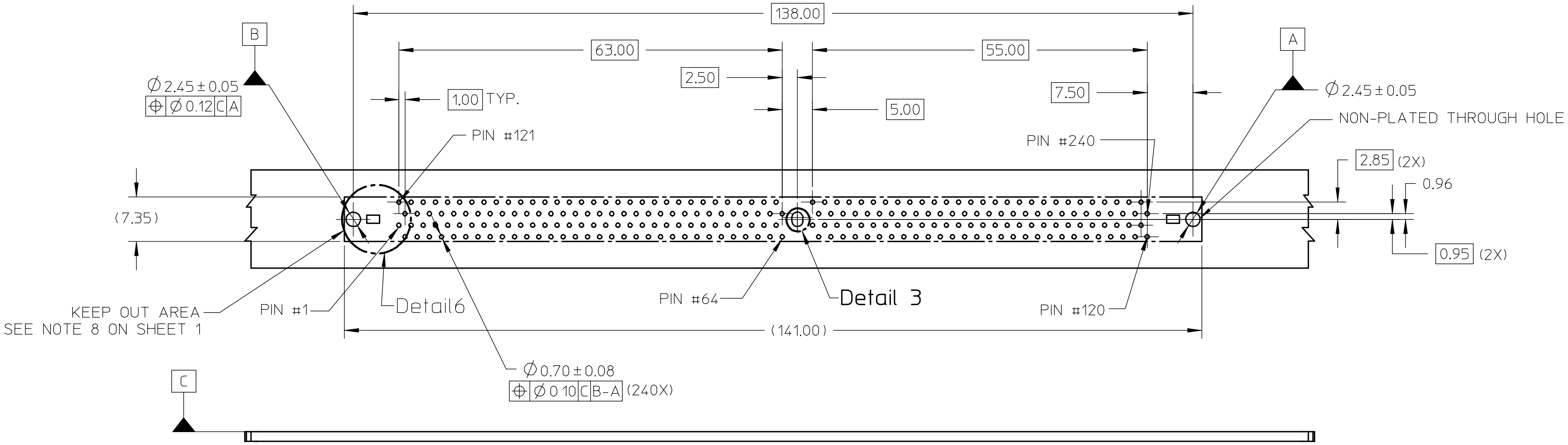


Detail 6



Detail 3

(SEE RECOMMENDED THICKNESS IN TABLE)
RECOMMENDED PCB LAYOUT
CONNECTOR SIDE



ADD NOTE @SHT4 C1
EC NO: S2008-1044 2008/05/15
DRWN:CMTEO 2008/05/15
CH'KD:CGTAN 2008/05/15
APPR:SHLENI
DESCRIPTION
D1
REV

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---

ANGULAR ± 5 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION

	DATE
DRAWN BY CGOH	2002/05/09
CHECKED BY DSOH	2002/07/22
APPROVED BY SKTOH	2002/07/23

TITLE
DDR2 DIMM, 1.00MM PITCH
240 CKTS
(FORKLOCK VERSION)

MOLEX INCORPORATED

MATERIAL NO. SEE TABLE
DOCUMENT NO. SD-87705-001
SHEET NO. 4 OF 6
SIZE A3

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

PART NO.	KEY POS.	DIM 'P'	RECOMMENDED PCB THICKNESS	PLATING OPTION	LATCH COLOR
87705-0021	CENTER (1.8V)	2.67	1.57	0.38uM / 15 uIN MIN. GOLD ON CONTACT, 2.54uM/ 100uIN MIN. TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	NATURAL
87705-1021		3.18	2.36		
87705-1053		3.66			
87705-0031		2.67	1.57	0.03uM / 1 uIN MIN. GOLD ON CONTACT, 2.54uM/ 100uIN MIN. TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	
87705-1031		3.18	2.36		
87705-0051		2.67	1.57	0.76uM / 30 uIN MIN. GOLD ON CONTACT, 2.54uM/ 100uIN MIN. TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	
87705-1051		3.18	2.36		

ADD NOTE @SHT4 C1
EC NO: S2008-1044
DRWN:CMTEO 2008/05/15
CH'KD:CGTAN 2008/05/15
APPR:SHLENI 2008/05/15
DESCRIPTION
D1
REV

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---

ANGULAR ± 5 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: CGOH DATE: 2002/05/09
CHECKED BY: DSOH DATE: 2002/07/22
APPROVED BY: SKTOH DATE: 2002/07/23

TITLE
DDR2 DIMM, 1.00MM PITCH
240 CKTS
(FORKLOCK VERSION)

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87705-001
SHEET NO.: 5 OF 6
SIZE: A3

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

PART NO.	KEY POS.	DIM 'P'	RECOMMENDED PCB THICKNESS	PLATING OPTION	LATCH COLOR
87705-5051	CENTER (1.8V)	2.67	1.57	0.76uM / 30 uIN MIN. GOLD ON CONTACT, 2.54uM/ 100uIN MIN. TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	CLEAR
87705-5151		3.18	2.36		
87705-6151		3.18	2.36	0.38uM / 15 uIN MIN. GOLD ON CONTACT, 2.54uM/ 100uIN MIN. TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	
87705-9101		2.67	1.57	0.38uM / 15 uIN MIN. GOLD ON CONTACT, 2.54uM/ 100uIN MIN. TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	BLACK

ADD NOTE @SHT4 C1
EC NO: S2008-1044
DRWN:CMTEO 2008/05/15
CH'KD:CGTAN 2008/05/15
APPR:SHLENI 2008/05/15
DESCRIPTION
D1
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 5 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

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

DRAWN BY: CGOH DATE: 2002/05/09
CHECKED BY: DSOH DATE: 2002/07/22
APPROVED BY: SKTOH DATE: 2002/07/23

TITLE
DDR2 DIMM, 1.00MM PITCH
240 CKTS
(FORKLOCK VERSION)

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87705-001
SHEET NO.: 6 OF 6
SIZE: A3

OCEAN CHIPS

Океан Электроники

Поставка электронных компонентов

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.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения **«JONHON»**, а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов **«FORSTAR»**.

«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).

Телефон: 8 (812) 309-75-97 (многоканальный)
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