This document was generated on 03/18/2010

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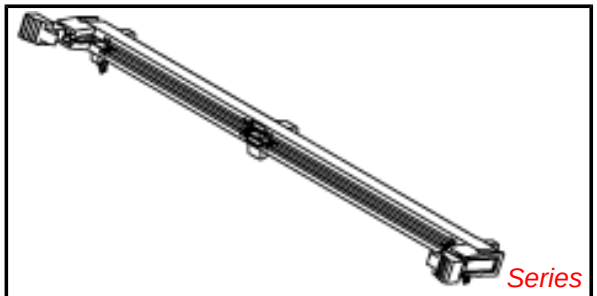
Part Number: 0876232113

Status: Active

Description: 1.27mm (.050") Pitch DDR DIMM Socket, Low Profile (25°), Single Key, with Beveled Metal Pins and Plastic Pegs, 3.81mm (.150") Tail Length, with 4.83mm (.190") Locating Pegs, 0.76µm (30µ") Gold (Au) Plating, 184 Circuits, Leadfree



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-87623-002 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	Memory Module Sockets
Series	87623
Component Type	Memory Module
JEDEC Outline	MO-206
Product Name	DDR DIMM

Physical

Circuits (Loaded)	184
Color - Resin	Black, Natural
Durability (mating cycles max)	25
Entry Angle	25° Angle
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)	0.150 In
PC Tail Length (mm)	3.81 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.110 In
PCB Thickness Recommended (mm)	2.80 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Plating min: Mating (µin)	30.4
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	101.6
Plating min: Termination (µm)	2.54
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	1A
Voltage - Maximum	50V
Voltage Key	2.5V, Left

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	2
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
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
87623Series

Mates With
JEDEC MO-206 modules

Product Specification	PS-87623-002, RPS-87623-003
Sales Drawing	SD-87623-001

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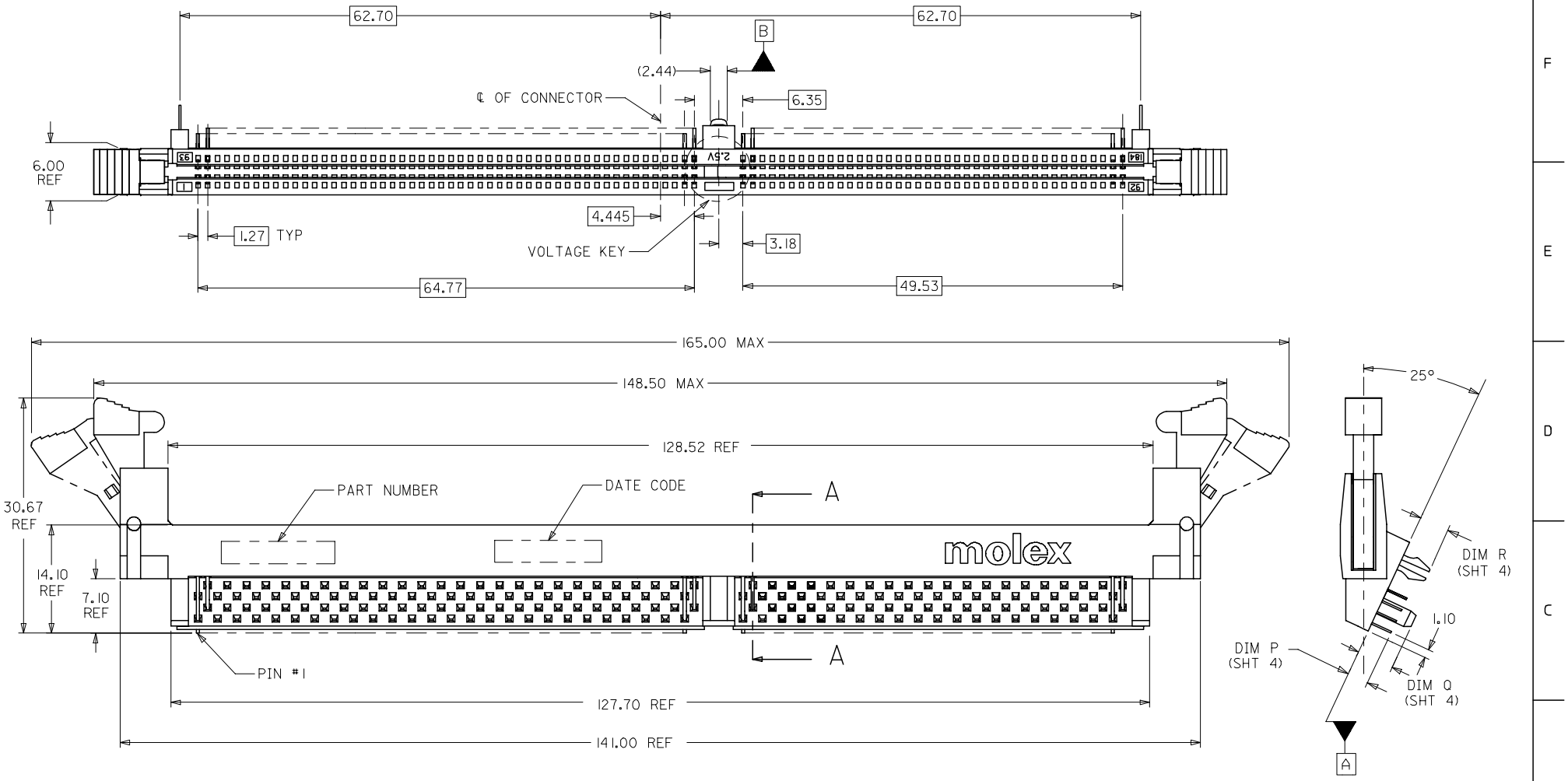

NOTES:

1. MATERIALS: HOUSING & BASEPLATE - LCP, GLASS FILLED, UL 94V-0, COLOR: BLACK
   LATCH - HIGH TEMP NYLON, GLASS FILLED, UL 94V-0, COLOR: BEIGE
   TERMINAL AND FORKLOCK - COPPER ALLOY
2. FINISHES: CONTACT AREA: SEE TABLE ON SHEET 4
   SOLDER TAILS: 2.54uM/100u" MIN. TIN
   OVER 1.27µm/50µ" MIN. NICKEL
3. PRODUCT SPECIFICATIONS: PS-87623-002 FOR
   PERFORMANCE SPECIFICATIONS.
4. DATE CODE SHALL BE MARKED LEGIBLY AS SHOWN: XX XX
   YEAR — WEEK
5. PART NUMBER SHALL BE MARKED LEGIBLY AS SHOWN: 87623-0XXX
   REFER TO TABLE

OBS TIN/LEAD P/N
EC NO: S2006-0734 2006/02/27
DRWN:MLONG 2006/02/28
CHKD:IHO 2006/03/01
APPR:GGLEE
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
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	LPLIM
DATE	2000/01/10
CHECKED BY	DSOH
DATE	2000/02/02
APPROVED BY	SKTOH
DATE	2000/02/02
MATERIAL NO.	SEE TABLE

TITLE: DDR DIMM, 1.27MM PITCH
184 CKTS, 25 DEG.

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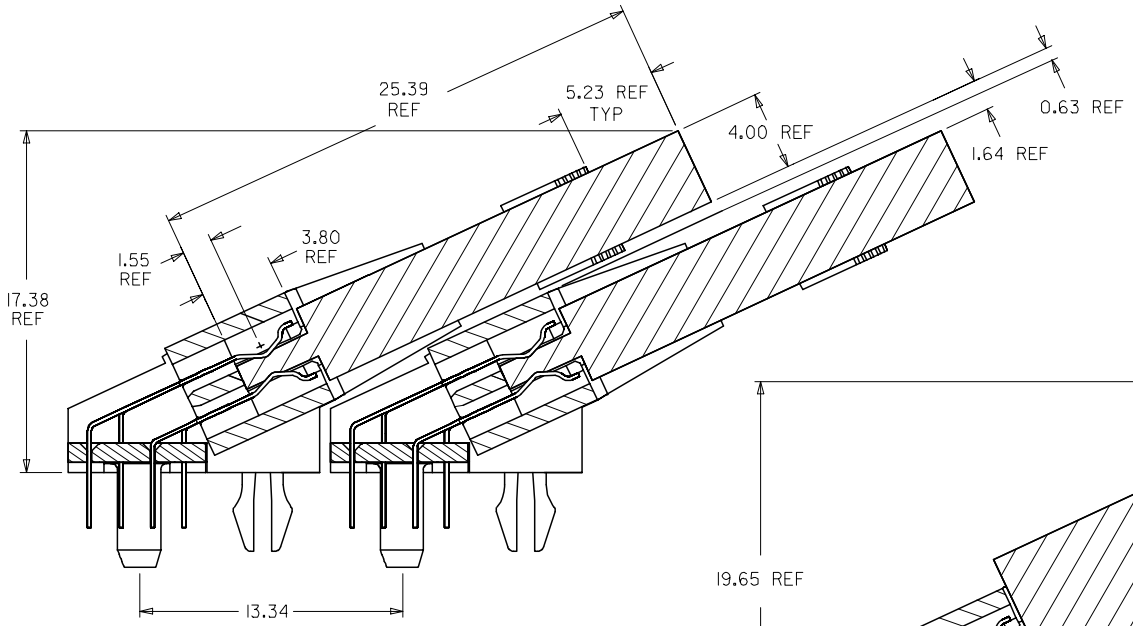
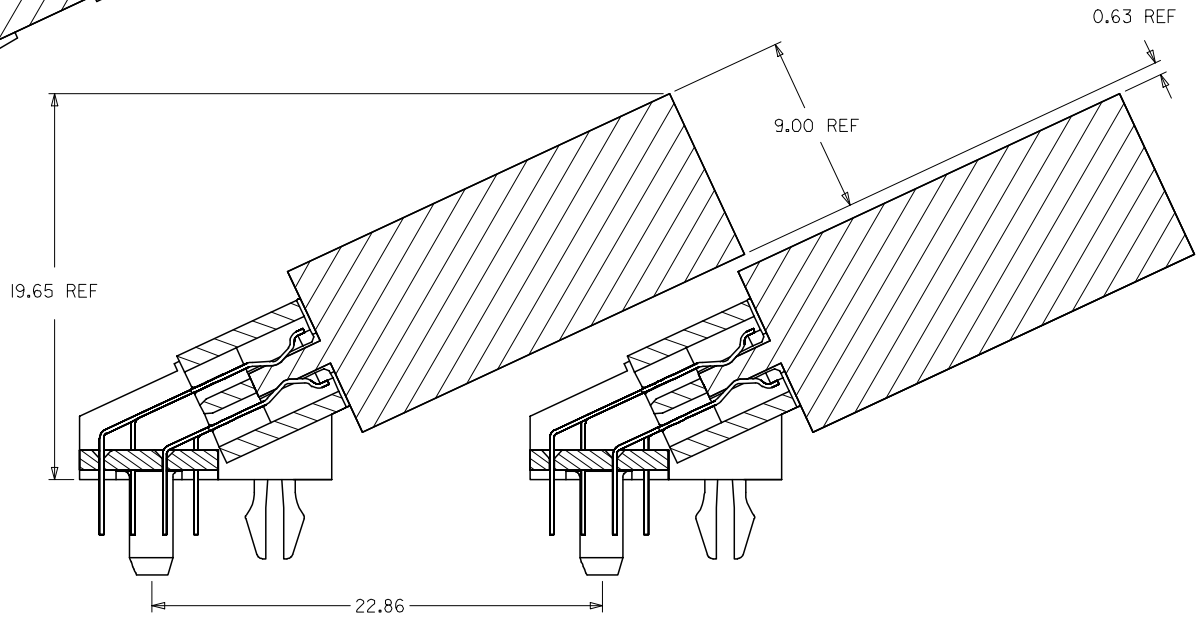
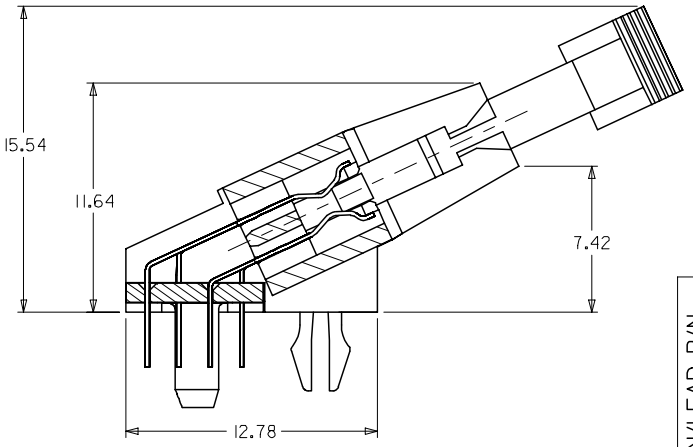
DOCUMENT NO. SD-87623-001
SHEET NO. 1 OF 4
SIZE A3



MINIMUM RECOMMENDED ROW TO ROW SPACING
WHEN USING A 4.00 mm THICK
MODULE (TYPICAL TSOP PACKAGING)



MINIMUM RECOMMENDED ROW TO ROW SPACING
WHEN USING A 9.00 mm THICK
MODULE (TYPICAL SOJ PACKAGING)



SECTION A-A

OBS TIN/LEAD P/N
EC NO: S2006-0734 2006/02/27
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APPR:GGLEE
DESCRIPTION
REV

QUALITY SYMBOLS
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Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 5 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

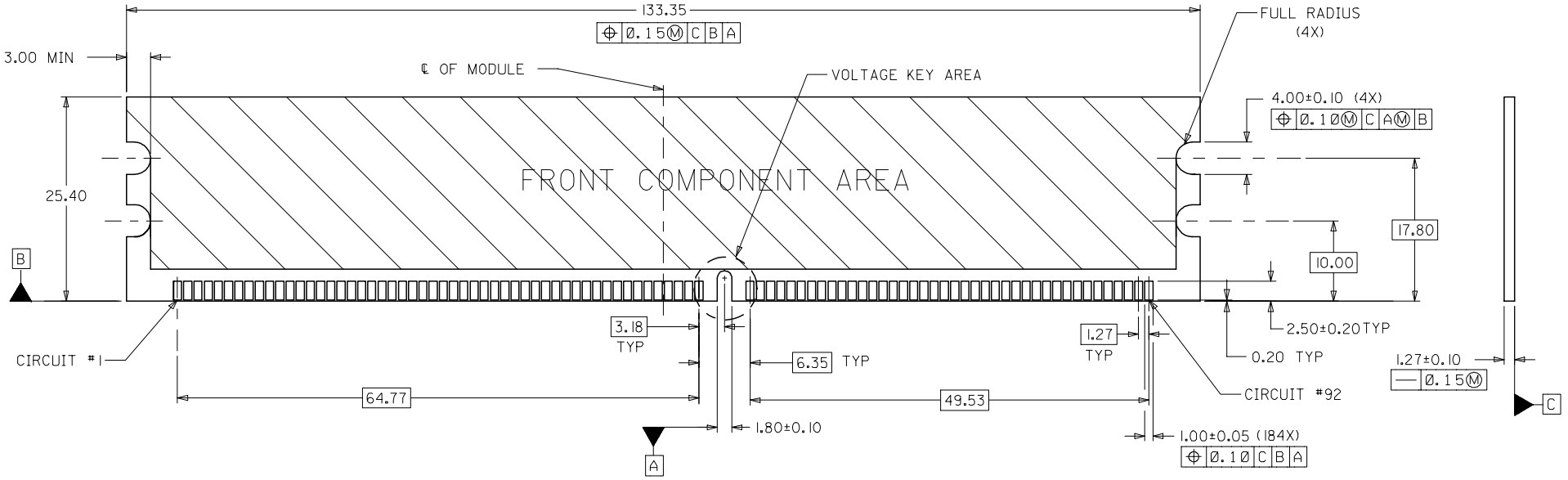
DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: LPLIM DATE: 2000/01/10
CHECKED BY: DSOH DATE: 2000/02/02
APPROVED BY: SKTOH DATE: 2000/02/02

TITLE: DDR DIMM, 1.27MM PITCH
184 CKTS, 25 DEG.

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87623-001
SHEET NO.: 2 OF 4
SIZE: A3

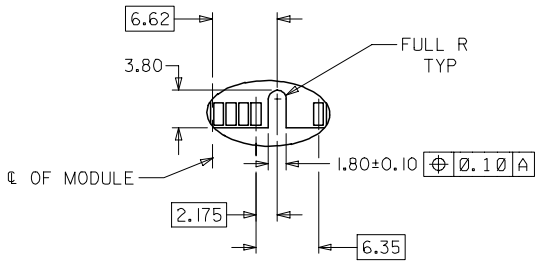


RECOMMENDED MODULE LAYOUT

(PER JEDEC STANDARD MO-206, 184 CKT.)

UNLESS OTHERWISE SPECIFIED, GENERAL TOLERANCE FOR MODULE = ±0.13

VOLTAGE KEY AREA



OFFSET LEFT KEY

(2.5 VOLTS)

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EC NO: S2006-0734 2006/02/27
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REV

QUALITY SYMBOLS
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Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

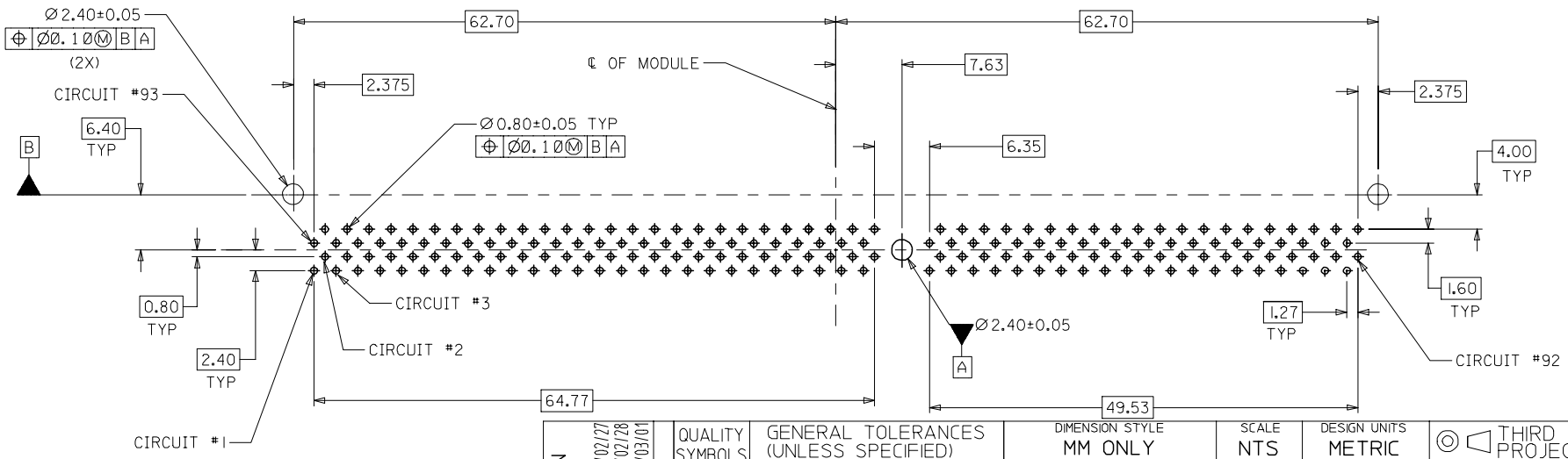
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---

ANGULAR ± 5 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	LPLIM 2000/01/10
CHECKED BY / DATE	DSOH 2000/02/02
APPROVED BY / DATE	SKTOH 2000/02/02
MATERIAL NO.	SEE TABLE
TITLE	DDR DIMM, 1.27MM PITCH 184 CKTS, 25 DEG.
	molex MOLEX INCORPORATED
DOCUMENT NO.	SD-87623-001
SHEET NO.	3 OF 4
SIZE	A3

PART NUMBER	VOLTAGE KEY	CKT SIZE	TAIL LENGTH P±0.25	PEG LENGTH Q±0.25	FORK LENGTH R±0.25	RECOMMENDED PCB THICKNESS	FINISHES: CONTACT AREA
87623-2001	LEFT (2.5V)	184	2.79	3.18	3.18	1.57	SELECTIVE GOLD 0.38uM/15u" MIN. GOLD OVER 1.27uM/50u" MIN. NICKEL
87623-2011			3.18	4.83	3.94		
87623-2012			3.18	3.18	3.18		
87623-2013			3.81	4.83	4.42	2.84	
87623-2101			2.79	3.18	3.18	1.57	SELECTIVE GOLD 0.76uM/30u" MIN. GOLD OVER 1.27uM/50u" MIN. NICKEL
87623-2111			3.18	4.83	3.94		
87623-2113			3.81	4.83	4.42	2.84	
87623-2115			3.18	3.18	3.18	1.57	



RECOMMENDED
P.C. BOARD HOLE PATTERN
(CONNECTOR SIDE)

OBS TIN/LEAD P/N
EC NO: S2006-0734 2006/02/27
DRWN:MLONG 2006/02/28
CHKD:IHO 2006/03/01
APPR:GGLEE
DESCRIPTION
REV

QUALITY SYMBOLS
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▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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2 PLACES	± 0.25	± ---
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: LPLIM DATE: 2000/01/10
CHECKED BY: DSOH DATE: 2000/02/02
APPROVED BY: SKTOH DATE: 2000/02/02
MATERIAL NO.: SEE TABLE

TITLE: DDR DIMM, 1.27MM PITCH
184 CKTS, 25 DEG.

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DOCUMENT NO.: SD-87623-001
SHEET NO.: 4 OF 4
SIZE: A3