molex
one company > a world of innovation

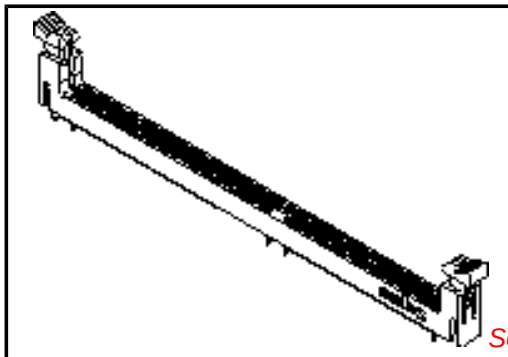
This document was generated on 06/08/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0879770051

Status: Active

Description: 1.00mm (.039") Pitch Fully Buffered DIMM Socket, Vertical, Press-Fit, 240 Circuits, 1.8V Center Voltage Key, with Plastic Locating Peg and Press-Fit Metal Pins, with Off-White Latches, 0.76µm (30µ") Gold (Au) Plating, Lead-free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-87977-001 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	Memory Module Sockets
Series	87977
Comments	<LI>Latches in Off-White Color|<LI>Solder Tail Length at 3.15mm (.124)
Component Type	Memory Module
JEDEC Outline	MO-256
Product Name	FB 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	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
PC Tail Length (in)	0.124 In
PC Tail Length (mm)	3.15 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.130 In
PCB Thickness Recommended (mm)	3.30 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.039 In
Pitch - Mating Interface (mm)	1.00 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	15.2
Plating min: Termination (µm)	0.38
Temperature Range - Operating	-10°C to +85°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact	1A
Voltage - Maximum	30V
Voltage Key	1.8V, Center

Material Info

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not 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
87977Series

Mates With
JEDEC MO-256 modules

Reference - Drawing Numbers

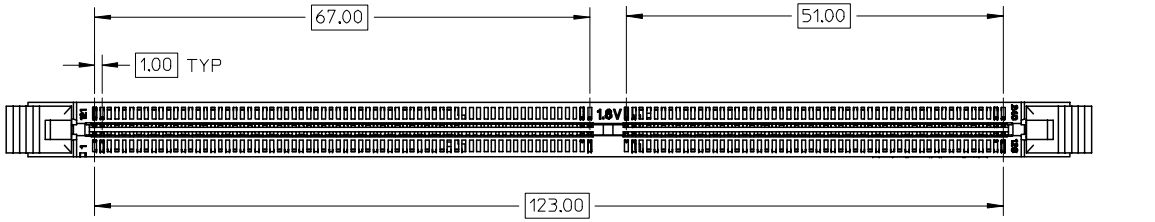
Product Specification	PS-87977-001
Sales Drawing	SD-87977-020

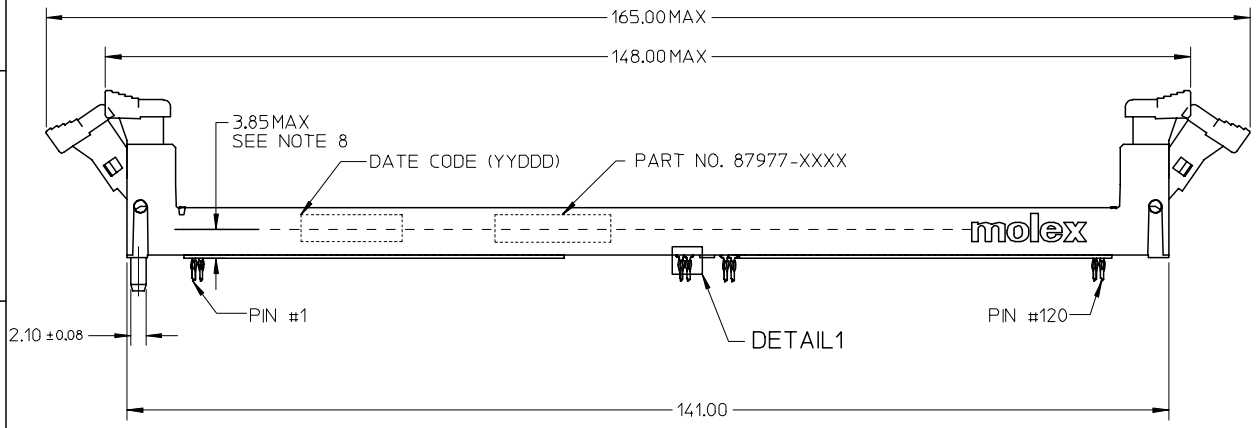
This document was generated on 06/08/2010

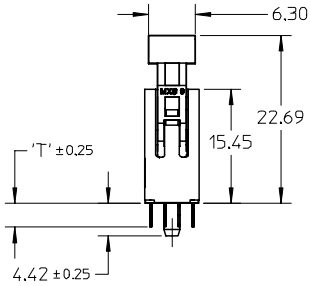
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

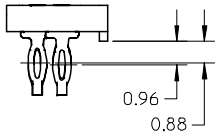
NOTES:

1. MATERIALS
   HOUSING - HIGH TEMP. NYLON, GLASS FILLED, UL 94V-0, BLACK
   EJECTOR - HIGH TEMP. NYLON, GLASS FILLED, UL 94V-0, NATURAL
   BASE PLATE - HIGH TEMP. NYLON, GLASS FILLED, UL 94V-0
   TERMINAL - COPPER ALLOY
2. PLATING - SEE TABLE IN SHEET 5.
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-14-066.
5. REFER TO PRODUCT SPEC. PS-87977-030 FOR PERFORMANCE SPECIFICATIONS.
6. PRODUCT SHALL BE PACKED IN TRAY.
7. PRODUCT SHALL HAVE DATE CODE STAMPED ON SIDE OF HOUSING.
8. PRODUCT IS SUITABLE FOR WAVE SOLDERING ONLY.
9. KEEP OUT AREA IS THE AREA WHERE THE CONNECTOR IS MOUNTED ONTO THE PCB WHICH DOES NOT INCLUDE THE LATCH.
10. REFER TO CRITICAL JEDEC INFORMATION FOR SOCKET OUTLINE PER SO-001.
11. DIMM MODULE SEATING PLANE FROM TOP OF PCB.
12. CONTACT MOLEX FOR AVAILABILITY OF PRODUCT OPTIONS.









DETAIL1

EC NO: S2006-0241	2005/09/01	DESCRIPTION	REV
DRWN: CCTEH	2005/09/01		
CHKD: SRRAMESH	2005/09/02		
APPR: GGLEE			
A			

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	SCALE	DESIGN UNITS	
MM ONLY	NTS	METRIC	THIRD ANGLE PROJECTION

DRAWN BY	DATE
CCTEH	2005/01/10
CHECKED BY	DATE
SRRAMESH	2005/08/30
APPROVED BY	DATE
GGLEE	2005/08/30

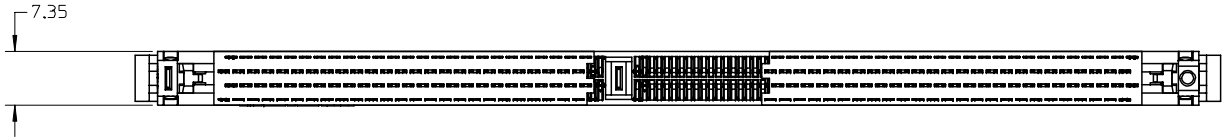
TITLE
SALES DRAWING
DDR FB DIMM 1.00MM PITCH
240 CKTS VERT. PRESS-FIT

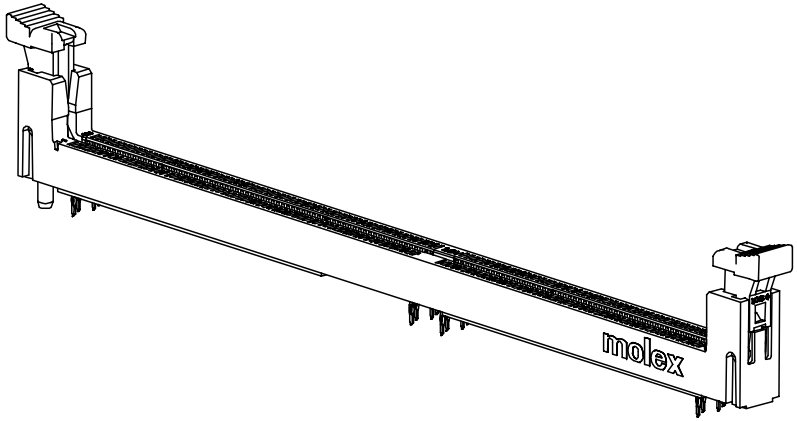
molex MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87977-020	1 OF 5

SIZE A3

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





EC NO: S2006-0241	2005/09/01	DESCRIPTION
DRWN: CCTEH	2005/09/01	
CHKD: SRRAMESH	2005/09/02	
APPR: GGLEE		
A		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

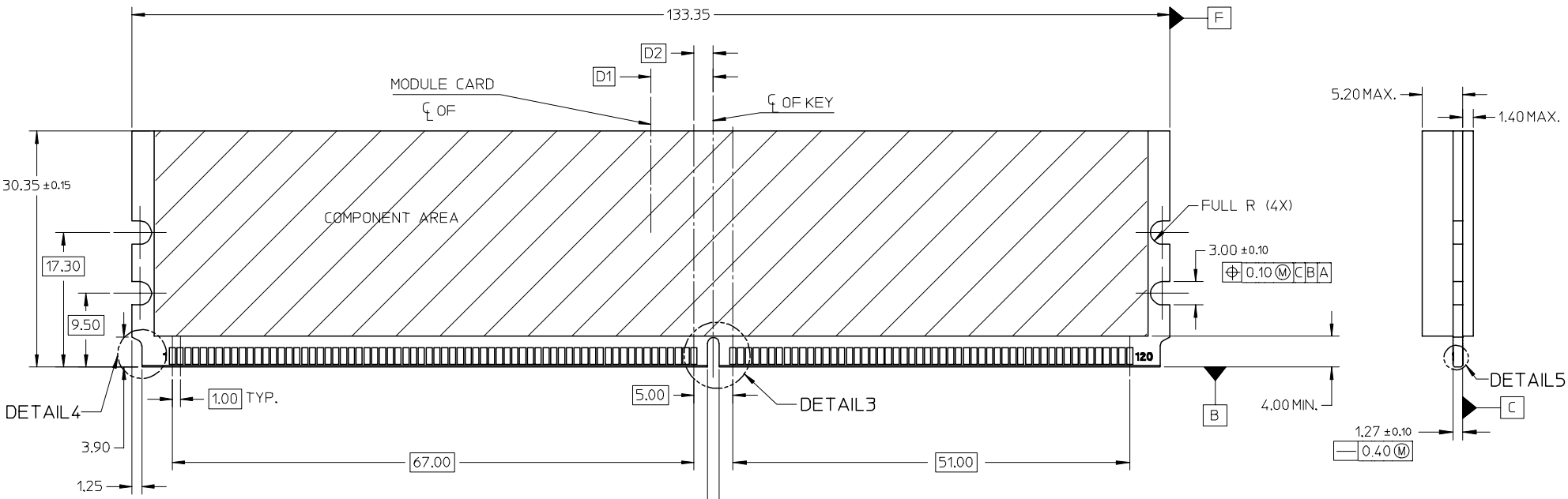
DIMENSION STYLE	MM ONLY
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	CCTEH
DATE	2005/01/10
CHECKED BY	SRRAMESH
DATE	2005/08/30
APPROVED BY	GGLEE
DATE	2005/08/30
MATERIAL NO.	SEE TABLE
DOCUMENT NO.	SD-87977-020
SHEET NO.	2 OF 5
SIZE	A3

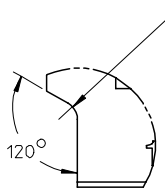
TITLE
SALES DRAWING
DDR FB DIMM 1.00MM PITCH
240 CKTS VERT. PRESS-FIT

MOLEX INCORPORATED

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

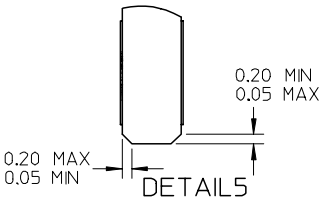
RECOMMENDED MODULE LAYOUT
(VARIATION AB, AS PER JEDEC MO-256A)



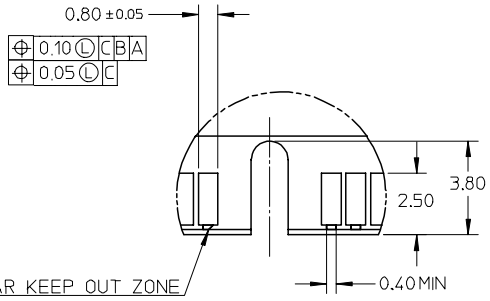


DETAIL4

KEY LOCATION	VOLTAGE	DIM 'D2'	DIM 'D1'
CENTER	1.8V	2.50	8.00



DETAIL5
OPTIONAL



DETAIL3

EC NO: S2006-0241 2005/09/01
DRWN: CCTEH 2005/09/01
CHKD: SRRAMESH 2005/09/02
APPR: GGLEE
DESCRIPTION
REV A

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: CCTEH DATE: 2005/01/10
CHECKED BY: SRRAMESH DATE: 2005/08/30
APPROVED BY: GGLEE DATE: 2005/08/30

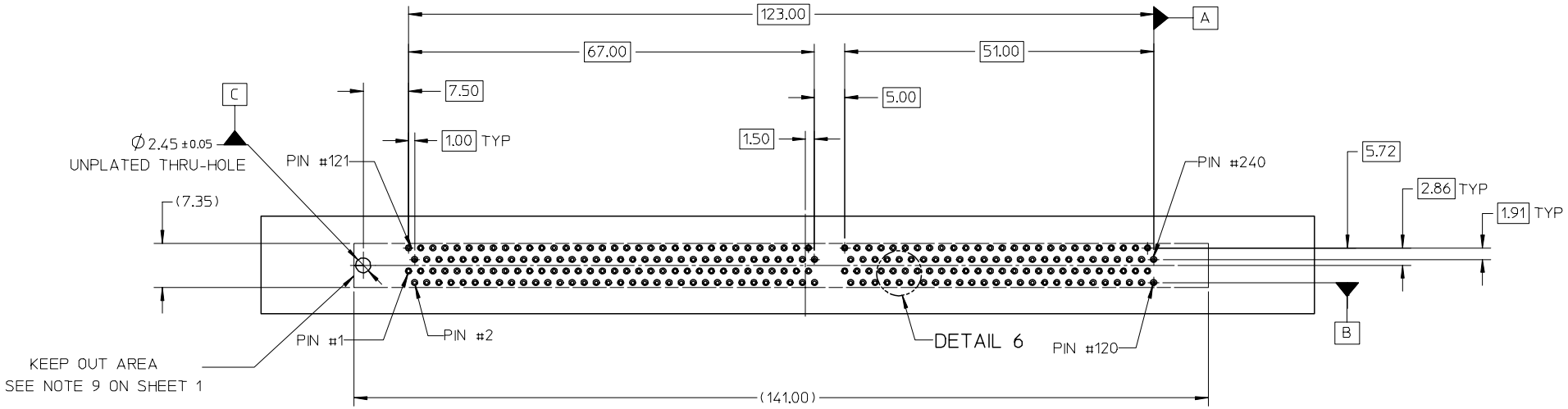
TITLE
SALES DRAWING
DDR FB DIMM 1.00MM PITCH
240 CKTS VERT. PRESS-FIT

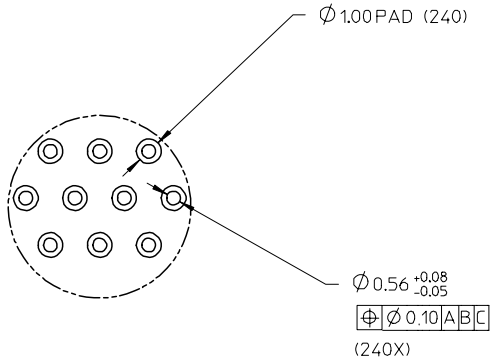
molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87977-020
SHEET NO.: 3 OF 5
SIZE: A3

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

RECOMMENDED PCB HOLE PATTERN
SEE TABLE IN SHEET 5 FOR
RECOMMENDED PCB THICKNESS





DETAIL 6

EC NO: S2006-0241	2005/09/01
DRWN: CCTEH	2005/09/01
CHKD: SRRAMESH	2005/09/02
APPR: GGLEE	
DESCRIPTION	
REV	A

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	CCTEH
DATE	2005/01/10
CHECKED BY	SRRAMESH
DATE	2005/08/30
APPROVED BY	GGLEE
DATE	2005/08/30
MATERIAL NO.	SEE TABLE
DOCUMENT NO.	SD-87977-020
SHEET NO.	4 OF 5
SIZE	A3

TITLE
SALES DRAWING
DDR FB DIMM 1.00MM PITCH
240 CKTS VERT. PRESS-FIT
molex MOLEX INCORPORATED

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

PART NO.	KEY POS.	DIM 'T'	RECOMEMDED PCB THICKNESS	PLATING OPTION	LATCH COLOR
87977-0021	CENTER (1.8V)	3.15	3.30	0.38uM / 15 uIN MIN. GOLD ON CONTACT, 1.52uM/ 60uIN MIN. PURE TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	NATURAL
87977-0051				0.76uM / 30 uIN MIN. GOLD ON CONTACT, 1.52uM/ 60uIN MIN. PURE TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	
87977-9001				0.38uM / 15 uIN MIN. GOLD ON CONTACT, 1.52uM/ 60uIN MIN. TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	BLACK

EC NO: S2006-0241 2005/09/01
DRWN:CCTEH 2005/09/01
CHKD:SRRAMESH 2005/09/02
APPR:GGLEE
DESCRIPTION
REV A

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: CCTEH DATE: 2005/01/10
CHECKED BY: SRRAMESH DATE: 2005/08/30
APPROVED BY: GGLEE DATE: 2005/08/30

TITLE: SALES DRAWING
DDR FB DIMM 1.00MM PITCH
240 CKTS VERT. PRESS-FIT

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87977-020
SHEET NO.: 5 OF 5
SIZE: A3

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