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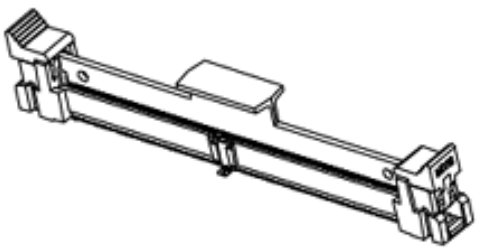
This document was generated on 05/20/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0877823007

Status: Active

Description: 0.60mm (.024") Pitch miniDIMM DDR3 Socket, Vertical, SMT, 0.76µm (30µ") Gold (Au) over Nickel, 1.5V, with Pick and Place Cover, 244 Circuits, Type C Tray, Lead free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-87782-027 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	Memory Module Sockets
Series	87782
Comments	<LI>Latches in Off-White Color|<LI>With Cap
Component Type	Socket
JEDEC Outline	MO-244
Product Name	MiniDIMM

Physical

Circuits (Loaded)	244
Color - Resin	Black
Durability (mating cycles max)	25
Entry Angle	Vertical (Top Entry)
Keying to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
PCB Locator	Yes
PCB Retention	Yes
Packaging Type	Tray
Pitch - Mating Interface (in)	0.024 In
Pitch - Mating Interface (mm)	0.60 mm
Pitch - Term. Interface (in)	0.024 In
Pitch - Term. Interface (mm)	0.60 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.54
Temperature Range - Operating	-55°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	1A
Voltage - Maximum	30V (RMS)
Voltage Key	1.5V

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	2
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

Application Specification	AS-87782-001
Product Specification	PS-87782-027

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

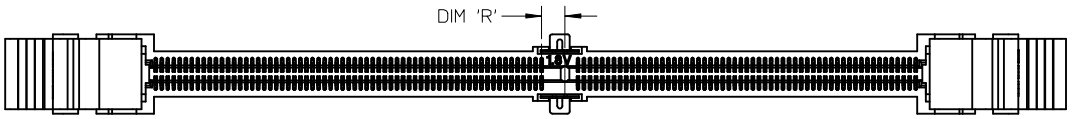
Please visit the Contact Us section for any non-product compliance questions.

Search Parts in this Series
87782Series

Mates With
JEDEC MO-244 Modules

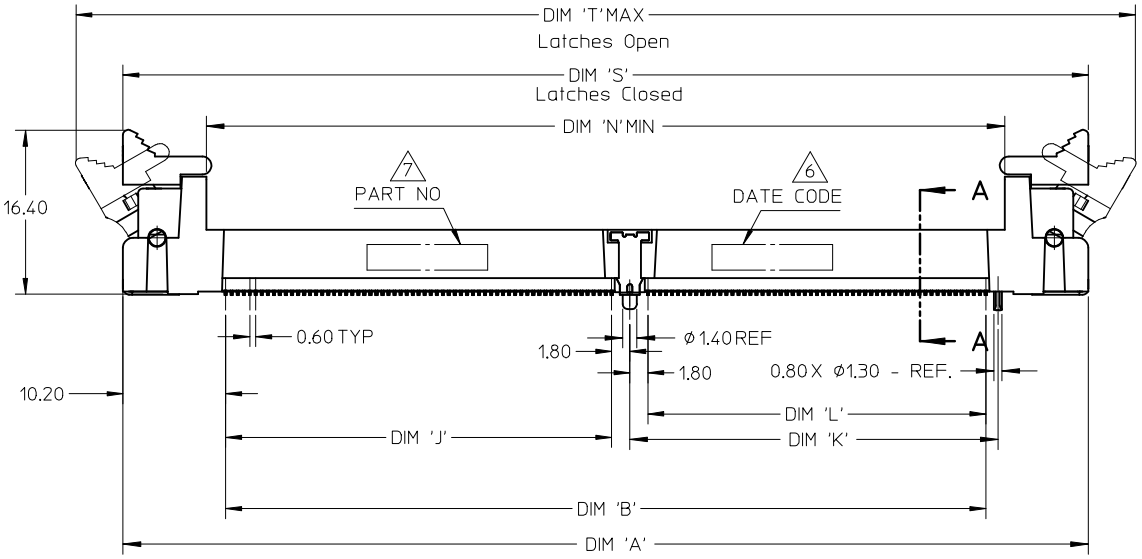
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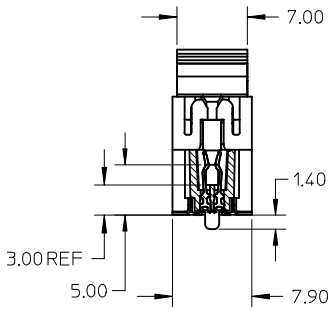
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



NOTES :
1. MATERIAL :
   HOUSING : LIQUID CRYSTAL POLYMER, GLASS FILLED, UL 94V-0, COLOUR : BLACK
   CONTACTS : COPPER ALLOY
   LATCHES : HIGH TEMPERATURE NYLON, UL 94V-0 COLOUR : NATURAL (OFF-WHITE)

2. FINISH
   CONTACT AREA : 0.76 MICROMETER (30 MICROINCH) MIN GOLD OVER 1.25 MICROMETER (50 MICROINCH) MIN NICKEL
   SMT TAIL : 2.54 MICROMETER (100 MICROINCH) MIN TIN OVER 1.25 MICROMETER (50 MICROINCH) MIN NICKEL.
3. ACCEPTS 1.0 mm THICK MEMORY MODULE PER JEDEC MO-244 FOR 244 CKTS AND MO-258 FOR 200 CKTS.
4. PRODUCT SPECIFICATION : PS-87782-027
5. PRODUCT SHALL BE PACKED IN TRAY. PLS REFER TO SHEET 5
6. DATE CODE SHALL BE MARKED LEGIBLY AS SHOWN : YYDDD
7. PART NUMBER SHALL BE MARKED LEGIBLY AS SHOWN. 87782-XXXX (REFER TO TABLE)





SECTION A-A

NEW COVER
EC NO: S2010-0004
DRWN: TARUMUGHAM 2009/08/12
CH'KD: CGTAN 2009/08/12
APPR: SHLEN 2009/08/17
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

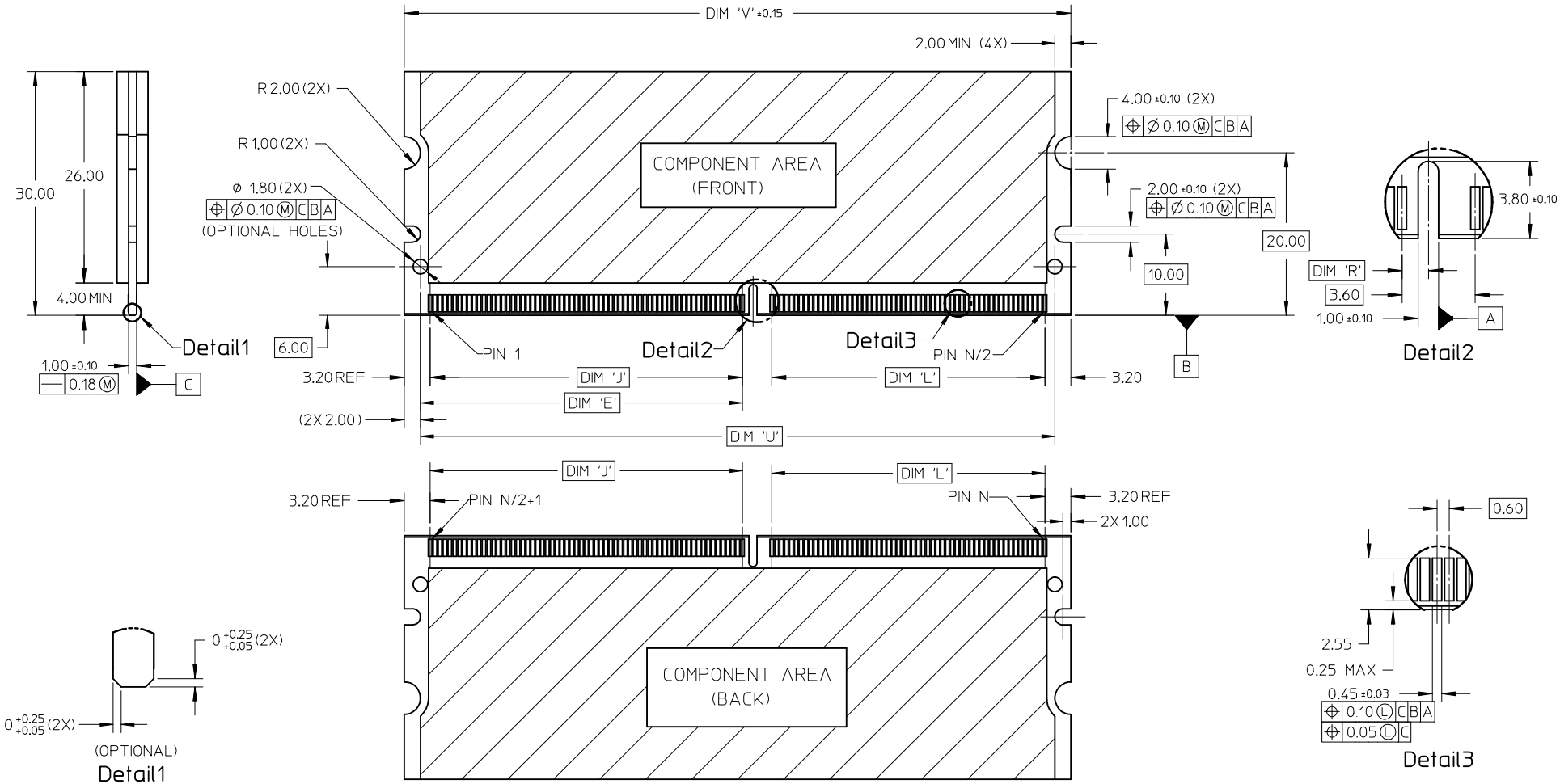
GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	MLONG
DATE	2003/01/07
CHECKED BY	PTLIM
DATE	2003/07/16
APPROVED BY	SKTOH
DATE	2003/07/17
MATERIAL NO.	SEE TABLE
TITLE	MINI DIMM, 0.60MM PITCH 200/244 CKTS, VERTICAL
	MOLEX INCORPORATED
DOCUMENT NO.	SD-87782-001
SHEET NO.	1 OF 6
SIZE	A3

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



NEW COVER
EC NO: S2010-0004
DRWN:TARUMUGHAM 2009/08/12
CHKD:CGTAN 2009/08/12
APPR:SHLENI 2009/08/17
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

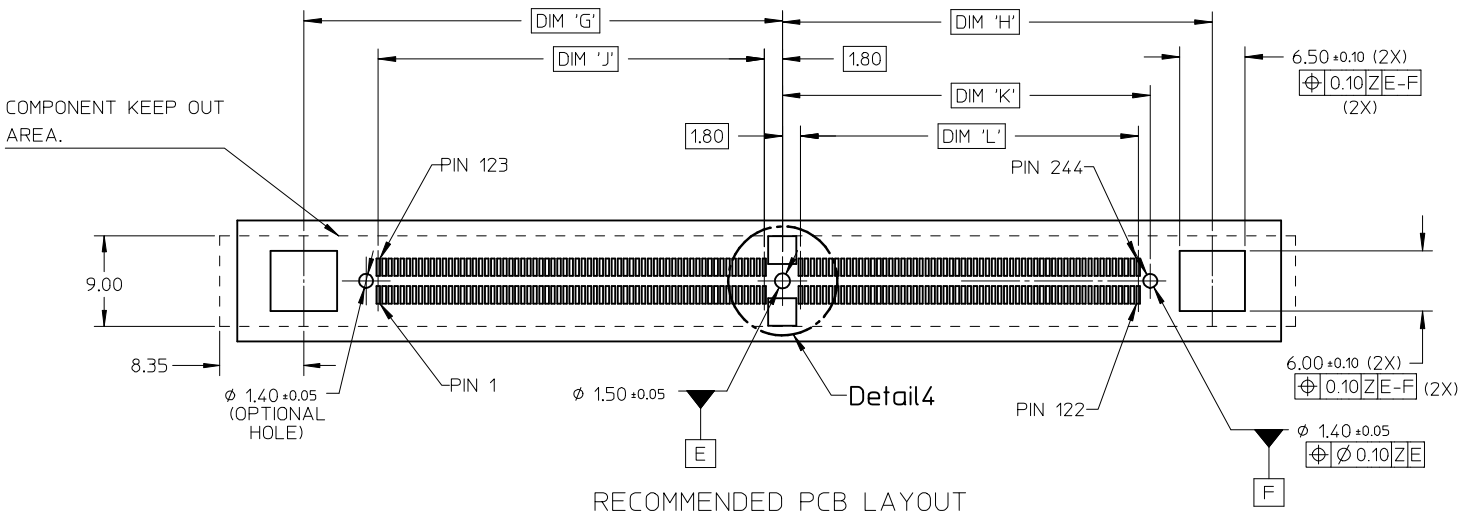
		DATE
DRAWN BY	MLONG	2003/01/07
CHECKED BY	PTLIM	2003/07/16
APPROVED BY	SKTOH	2003/07/17

TITLE: MINI DIMM, 0.60MM PITCH 200/244 CKTS, VERTICAL

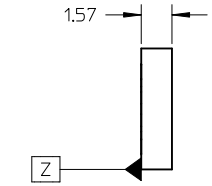
MOLEX INCORPORATED

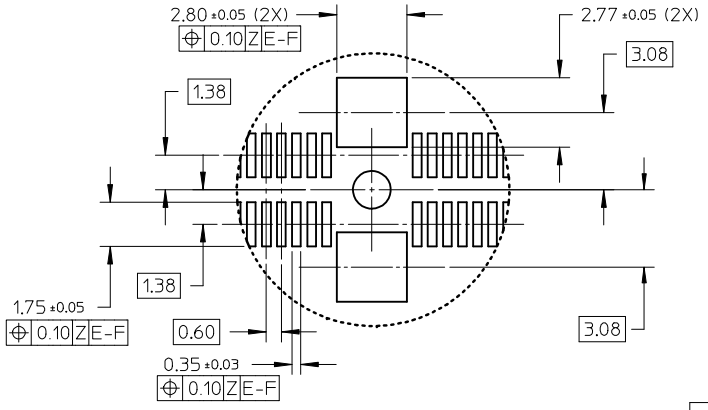
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87782-001
SHEET NO.: 2 OF 6
SIZE: A3

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RECOMMENDED PCB LAYOUT





Detail4

NEW COVER
EC NO: S2010-0004
DRWN:TARUMUGHAM 2009/08/12
CHKD:CGTAN 2009/08/12
APPR:SHLENI 2009/08/17
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

		DATE
DRAWN BY	MLONG	2003/01/07
CHECKED BY	PTLIM	2003/07/16
APPROVED BY	SKTOH	2003/07/17

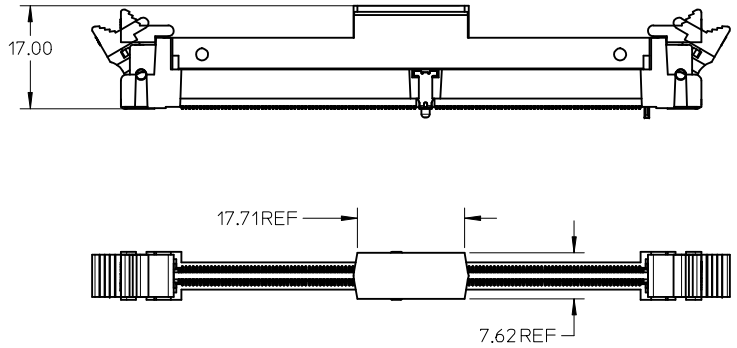
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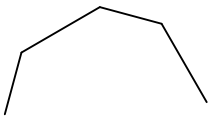
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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87782-001
SHEET NO.: 3 OF 6
SIZE: A3

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FOR OPTIONS WITH COVER





NEW COVER
EC NO: S2010-0004
DRWN:TARUMUGHAM 2009/08/12
CH'KD:CGTAN 2009/08/12
APPR:SHLENI 2009/08/17
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

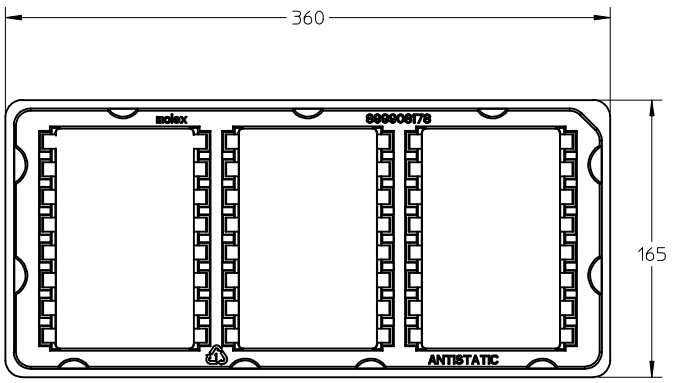
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CHECKED BY: PTLIM DATE: 2003/07/16
APPROVED BY: SKTOH DATE: 2003/07/17

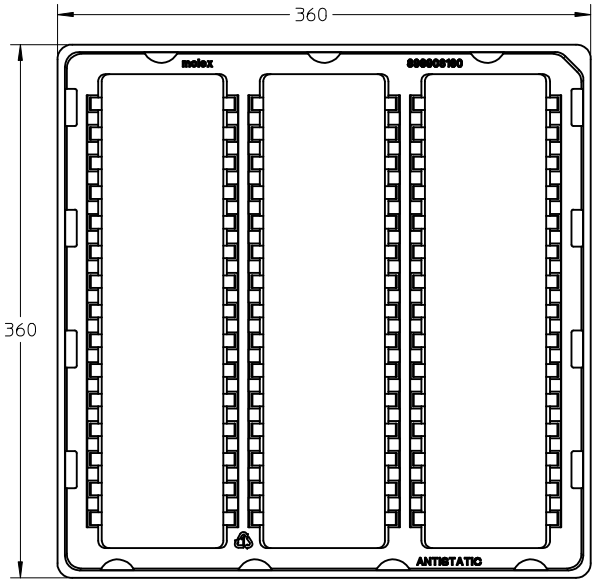
TITLE: MINI DIMM, 0.60MM PITCH 200/244 CKTS, VERTICAL

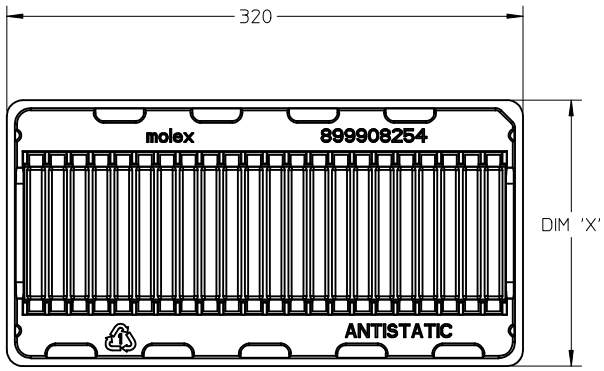
MOLEX INCORPORATED

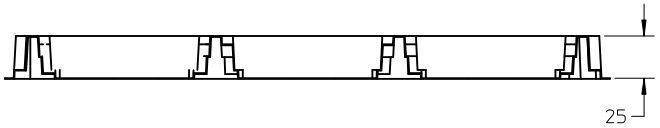
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87782-001
SHEET NO.: 4 OF 6
SIZE: A3

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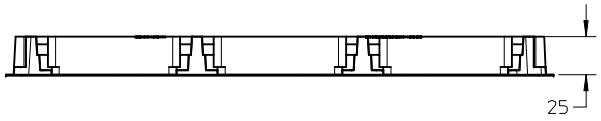




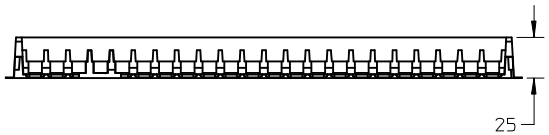




TRAY TYPE A
QTY OF CAVITY: 3 X 8 = 24 PCS
COLOUR: TRANSPARENT



TRAY TYPE B
QTY OF CAVITY: 3 X 15 = 45 PCS
COLOUR: TRANSPARENT



TRAY TYPE AND COLOUR - SEE TABLE
QTY OF CAVITY: 1 X 22 = 22 PCS
COLOUR - SEE TABLE

TRAY TYPE	DIM 'X'	TRAY COLOUR
C	165	TRANSPARENT
D	160	WHITE

NEW COVER
EC NO: S2010-0004
DRWN:TARUMUGHAM 2009/08/12
CH'KD:CGTAN 2009/08/12
APPR:SHLENI 2009/08/17
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
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ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: MLONG DATE: 2003/01/07
CHECKED BY: PTLIM DATE: 2003/07/16
APPROVED BY: SKTOH DATE: 2003/07/17
MATERIAL NO.: SEE TABLE

TITLE: MINI DIMM, 0.60MM PITCH 200/244 CKTS, VERTICAL

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DOCUMENT NO.: SD-87782-001
SHEET NO.: 5 OF 6

SIZE: A3

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CKT SIZE 'N'	PART NUMBER	MODULE CARD	VOLTAGE KEY	DIM 'R'	DIM 'J'	DIM 'K'	DIM 'L'	DIM 'N'	DIM 'A'	DIM 'S'	DIM 'T'	DIM 'E'	DIM 'U'	DIM 'V'	DIM 'G'	DIM 'H'	DIM 'B'	COVER	TRAY
244	87782-2001	DDR2	1.8 V	1.30	38.40	36.60	33.60	79.00	96.0	96.0	106.20	39.60	78.00	82.00	47.60	42.75	75.60	NIL	TYPE A
244	87782-2003	DDR2	1.8 V	1.30	38.40	36.60	33.60	79.00	96.0	96.0	106.20	39.60	78.00	82.00	47.60	42.75	75.60	YES	TYPE B
	87782-3003	DDR3	1.5 V	2.30															
244	87782-2005	DDR2	1.8 V	1.30	38.40	36.60	33.60	79.00	96.0	96.0	106.20	39.60	78.00	82.00	47.60	42.75	75.60	YES	TYPE A
	87782-3005	DDR3	1.5 V	2.30															
244	87782-2007	DDR2	1.8 V	1.30	38.40	36.60	33.60	79.00	96.0	96.0	106.20	39.60	78.00	82.00	47.60	42.75	75.60	YES	TYPE C
	87782-3007	DDR3	1.5 V	2.30															
244	87782-2009	DDR2	1.8 V	1.30	38.40	36.60	33.60	79.00	96.0	96.0	106.20	39.60	78.00	82.00	47.60	42.75	75.60	YES	TYPE D
	87782-3009	DDR3	1.5 V	2.30															
200	87782-2201	DDR2	1.8 V	1.30	23.40	38.40	35.40	65.80	82.8	82.8	93.00	24.60	64.80	68.80	32.60	44.55	62.40	NIL	TYPE A
	87782-2202	DDR	2.5 V	2.30															
200	87782-2203	DDR2	1.8 V	1.30	23.40	38.40	35.40	65.80	82.8	82.8	93.00	24.60	64.80	68.80	32.60	44.55	62.40	YES	TYPE A
	87782-2204	DDR	2.5 V	2.30															

NEW COVER
EC NO: S2010-0004 2009/08/12
DRWN:TARUMUGHAM 2009/08/12
CH'KD:CGTAN 2009/08/17
APPR:SHLENI
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
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ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: MLONG DATE: 2003/01/07
CHECKED BY: PTLIM DATE: 2003/07/16
APPROVED BY: SKTOH DATE: 2003/07/17

TITLE: MINI DIMM, 0.60MM PITCH 200/244 CKTS, VERTICAL

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87782-001
SHEET NO.: 6 OF 6
SIZE: A3

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