

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0877822005](#)
Status: **Active**
Description: 0.60mm (.024") Pitch miniDIMM DDR2 Socket, Vertical, SMT, 0.76µm (30µ") Gold (Au) over Nickel, 1.8V, with Pick and Place Cover, 244 Circuits, Type A Tray, Lead free

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 Latches in Off-White ColorWith 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 1.8V

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
Product Specification PS-87782-027
Sales Drawing SD-87782-001

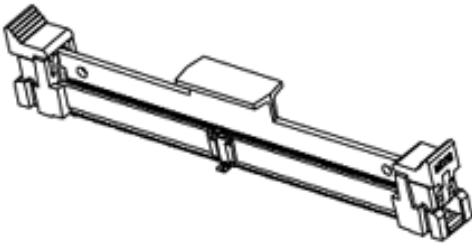


image - Reference only **Series**

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

This document was generated on 04/09/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

10 9 8 7 6 5 4 3 2 1

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.

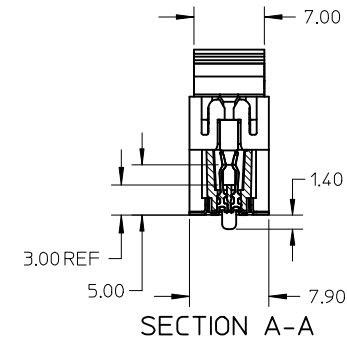
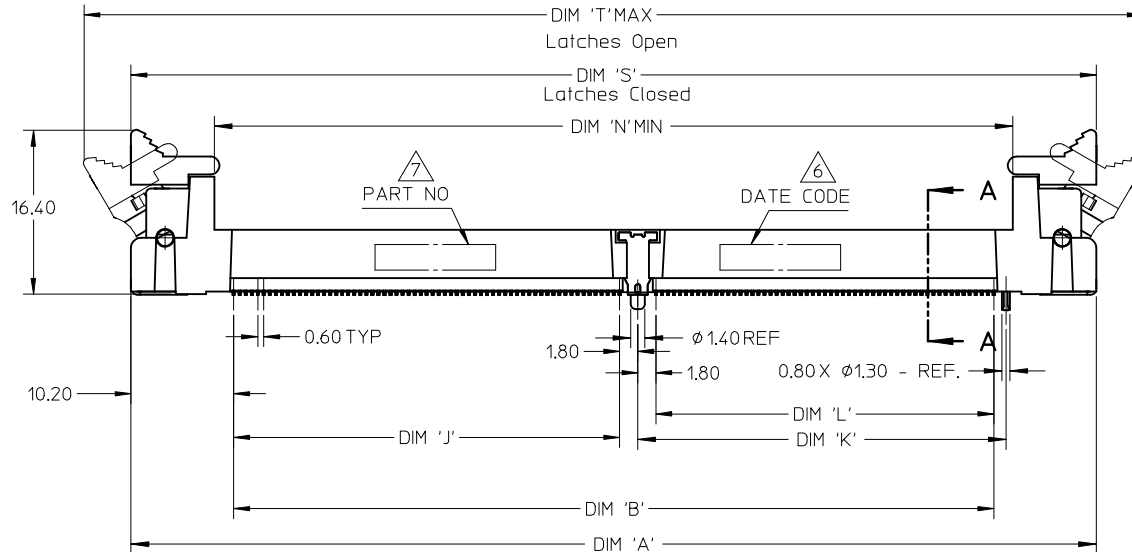
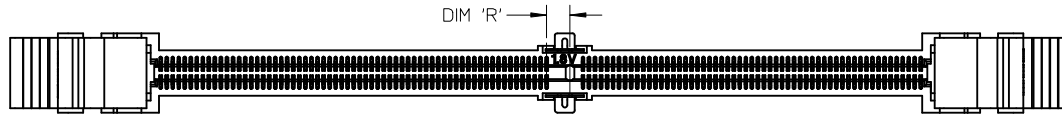
3. ACCEPTS 1.0 mm THICK MEMORY MODULE PER JEDEC MO-244
FOR 244 CKTS AND MO-258 FOR 200 CKTS.

4. PRODUCT SPECIFICATION : PS-87782-027

5. PRODUCT SHALL BE PACKED IN TRAY. PLS REFER TO SHEET 5

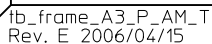
6. DATE CODE SHALL BE MARKED LEGIBLY AS SHOWN : YYDD

7. PART NUMBER SHALL BE MARKED LEGIBLY AS SHOWN.
87782-XXXX (REFER TO TABLE)



NEW COVER EC NO: S2010-0004 T DRWN: TARUMUGHAM CHKD: CGTAN APPR: SILENI REV	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					DRAWN BY MLONG	DATE 2003/01/07	TITLE MINI DIMM, 0.60MM PITCH 200/244 CKTS, VERTICAL					
					CHECKED BY PTL IM	DATE 2003/07/16						
					APPROVED BY SKTOH	DATE 2003/07/17	MOLEX INCORPORATED					
			ANGULAR ± 1 °		MATERIAL NO.							DOCUMENT NO.
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE			SD-87782-001			1 OF 6	
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

9 8 7 6 5 4 3 2 1



10 9 8 7 6 5 4 3 2 1

F

F

E

E

D

D

C

C

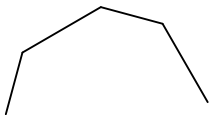
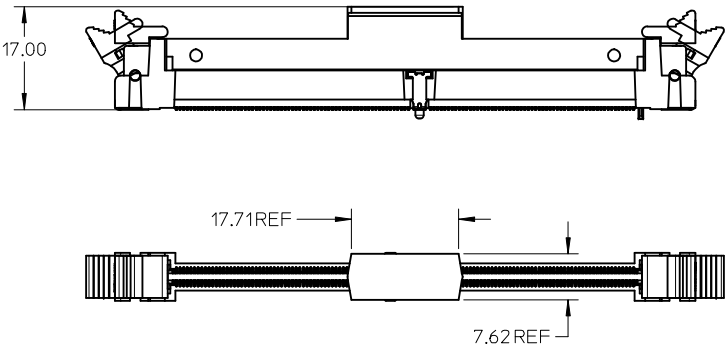
B

B

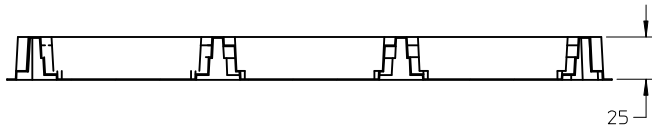
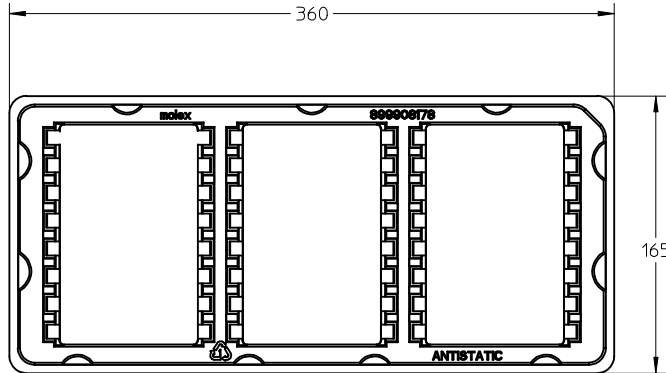
A

A

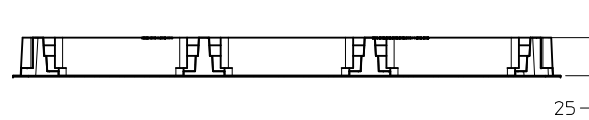
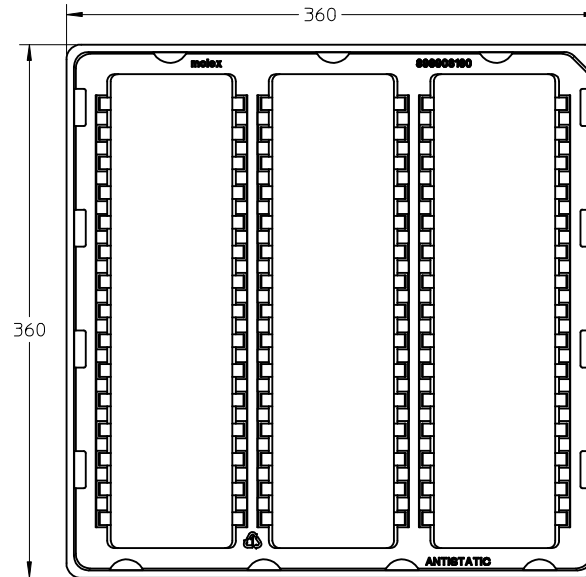
FOR OPTIONS WITH COVER



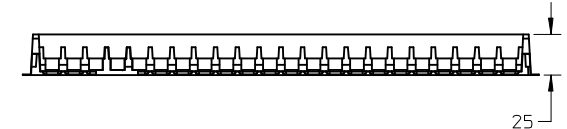
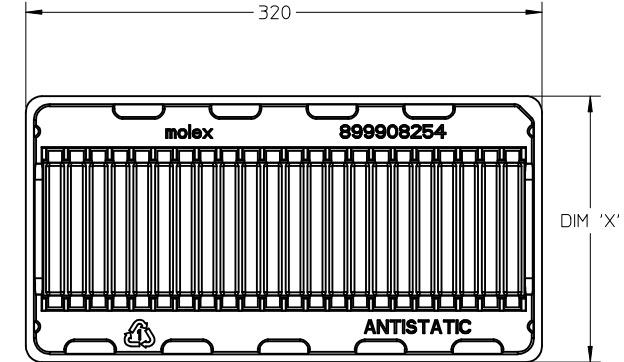
NEW COVER EC NO: S2010-0004 DRWN: TARUMUGHAM CHKD: CGTAN APPR: SILENI	DESCRIPTION 2009/08/12 2009/08/12 2009/08/17	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY MLONG	DATE 2003/01/07	TITLE MINI DIMM, 0.60MM PITCH 200/244 CKTS, VERTICAL				
			4 PLACES	± ---	± ---	CHECKED BY	DATE					
			3 PLACES	± ---	± ---	PTLIM	2003/07/16					
			2 PLACES	± 0.13	± ---	APPROVED BY	DATE	MOLEX MOLEX INCORPORATED				
			1 PLACE	± 0.25	± ---	SKTOH	2003/07/17					
			ANGULAR ± 1 °			MATERIAL NO.		DOCUMENT NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87782-001							
			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
REV							SHEET NO. 4 OF 6					



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 CHKD: CGTAN 2009/08/12 APPR: SILENI 2009/08/17	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
						DRAWN BY MLONG	DATE 2003/01/07	TITLE MINI DIMM, 0.60MM PITCH 200/244 CKTS, VERTICAL			
						CHECKED BY PTLIM	DATE 2003/07/16				
						APPROVED BY SKTOH	DATE 2003/07/17	MOLEX INCORPORATED			
				ANGULAR ± 1 °		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87782-001		SHEET NO. 5 OF 6	
				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					

	10	9	8	7	6	5	4	3	2	1																																								
F	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	F																													
	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														YES	TYPE B																														
E	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	E																													
		87782-3005	DDR3	1.5 V	2.30														YES	TYPE A																														
	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														YES	TYPE C																														
D	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	D																													
		87782-3009	DDR3	1.5 V	2.30														YES	TYPE D																														
	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														NIL	TYPE A																														
C	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	C																													
		87782-2204	DDR	2.5 V	2.30														YES	TYPE A																														
B																					B																													
A																					A																													
NEW COVER EC NO: S2010-0004 DRWN: TARUMUGHAM 2009/08/12 CHKD: CGTAN 2009/08/12 APPR: SILENI 2009/08/17 QUALITY SYMBOLS ▽=0 ◻=0 DESCRIPTION GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± 0.13</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± 0.25</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ± 1 °</td></tr></table> DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DIMENSION STYLE MM ONLY <table><tr><td>DRAWN BY</td><td>DATE</td></tr><tr><td>MLONG</td><td>2003/01/07</td></tr><tr><td>CHECKED BY</td><td>DATE</td></tr><tr><td>PTL IM</td><td>2003/07/16</td></tr><tr><td>APPROVED BY</td><td>DATE</td></tr><tr><td>SKTOH</td><td>2003/07/17</td></tr></table> SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION TITLE MINI DIMM, 0.60MM PITCH 200/244 CKTS, VERTICAL MOLEX MOLEX INCORPORATED MATERIAL NO. SEE TABLE DOCUMENT NO. SD-87782-001 SHEET NO. 6 OF 6																						mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.13	± ---	1 PLACE	± 0.25	± ---	ANGULAR ± 1 °			DRAWN BY	DATE	MLONG	2003/01/07	CHECKED BY	DATE	PTL IM	2003/07/16	APPROVED BY	DATE	SKTOH	2003/07/17
	mm	INCH																																																
4 PLACES	± ---	± ---																																																
3 PLACES	± ---	± ---																																																
2 PLACES	± 0.13	± ---																																																
1 PLACE	± 0.25	± ---																																																
ANGULAR ± 1 °																																																		
DRAWN BY	DATE																																																	
MLONG	2003/01/07																																																	
CHECKED BY	DATE																																																	
PTL IM	2003/07/16																																																	
APPROVED BY	DATE																																																	
SKTOH	2003/07/17																																																	
fb_frame_A3_P_AM-T Rev. E 2006/04/15	9	8	7	6	5	4	3	2	1																																									