

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

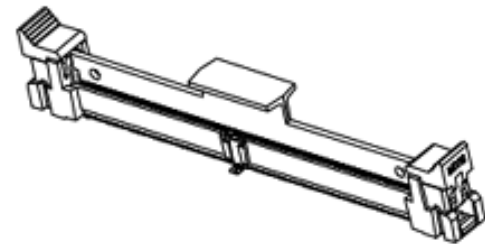
0877823003

Status:

Active

Description:

0.60mm (.024") Pitch miniDIMM DDR3, Socket, Surface Mount, Vertical, 1.5V Voltage Key, 244 Circuits, 0.76µm (30µ") Gold (Au) Plating, Off- White Latches, with Pick-and-Place Cap, Type B 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	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	1.5V

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
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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 05/20/2010

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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.

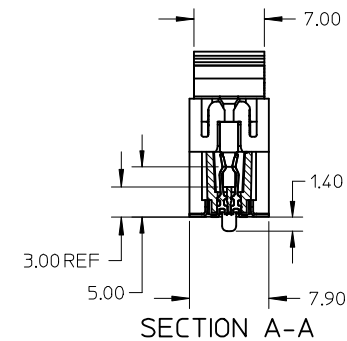
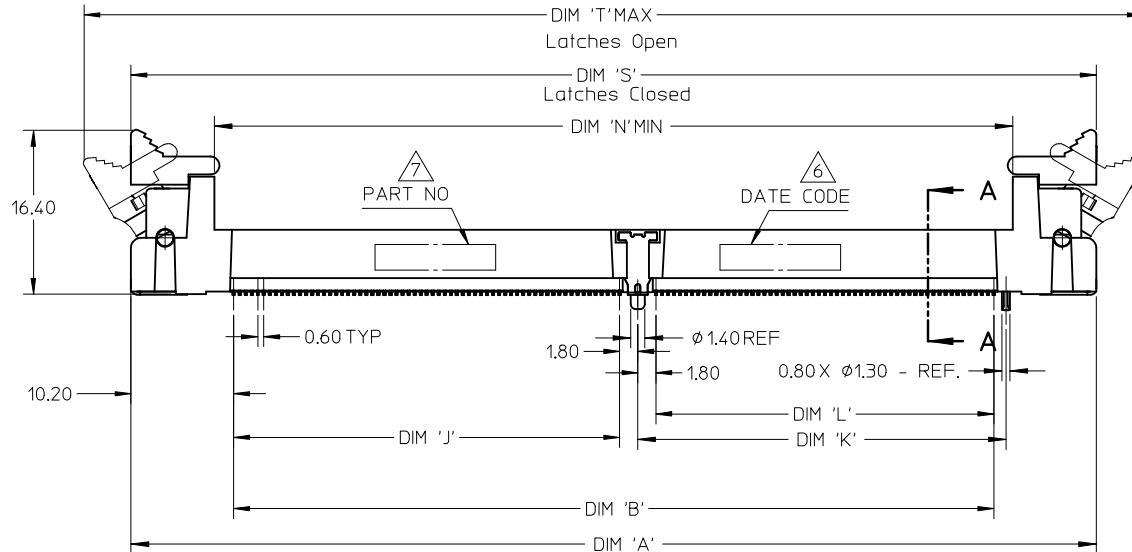
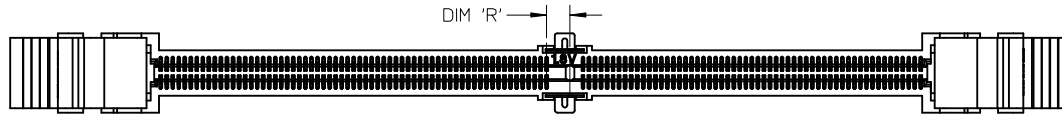
3. ACCEPTS 1.0 mm THICK MEMORY MODULE PER JEDEC MO-244
FOR 244 CKTS AND MO-258 FOR 200 CKTS.

4. PRODUCT SPECIFICATION : PS-87782-027

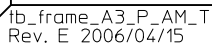
5. PRODUCT SHALL BE PACKED IN TRAY. PLS REFER TO SHEET 5

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

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

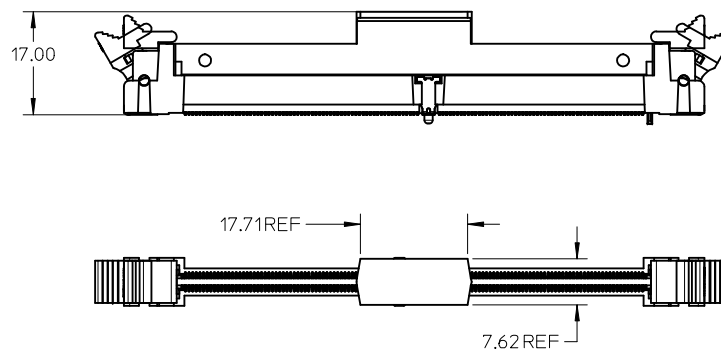


NEW COVER EC NO: S2010-0004 DRWN:TARUMUGHAM CHKD:CGTAN APPR:SHLENI REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ⌒=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY MLONG	DATE 2003/01/07	TITLE MINI DIMM, 0.60MM PITCH 200/244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

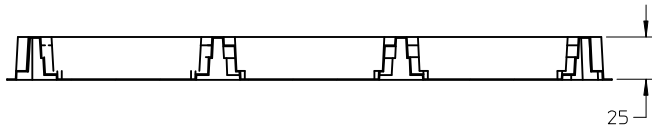
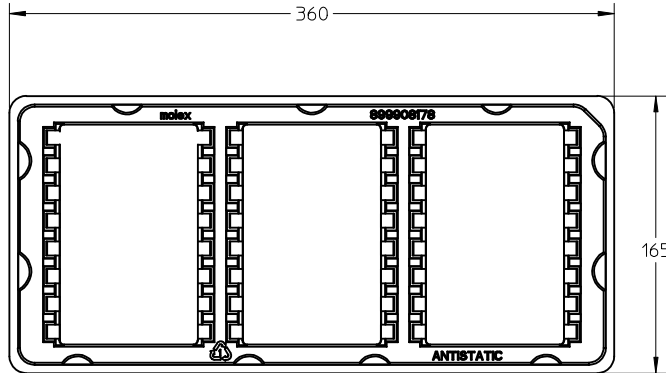


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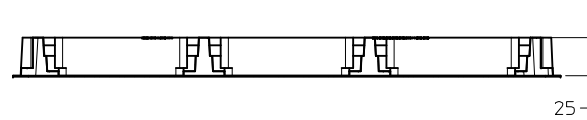
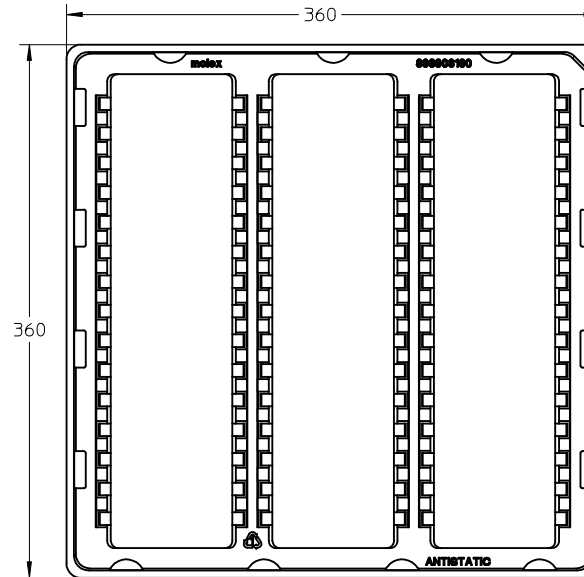
FOR OPTIONS WITH COVER



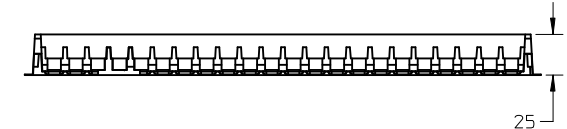
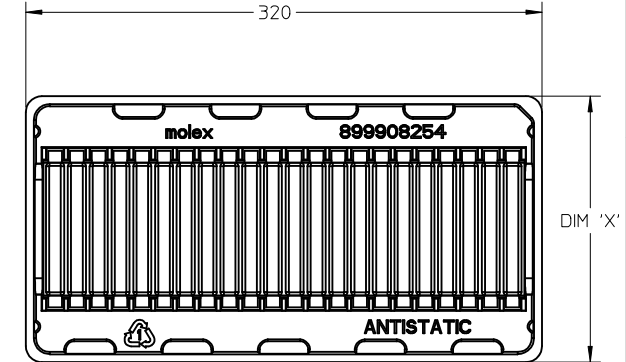
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			3 PLACES	± ---	± ---	PTL IM	2003/07/16					
			2 PLACES	± 0.13	± ---	APPROVED BY	DATE					
			1 PLACE	± 0.25	± ---	SKTOH	2003/07/17	MOLEX		MOLEX INCORPORATED		
			ANGULAR ± 1 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87782-001		4 OF 6		
						SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



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		
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						CHECKED BY PTLIM	DATE 2003/07/16					
						APPROVED BY SKTOH	DATE 2003/07/17					
						ANGULAR ± 1 °		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87782-001		SHEET NO. 5 OF 6
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		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																																														
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																																														
	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																																														
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																																														
	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																																														
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																																														
B																					B																														
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