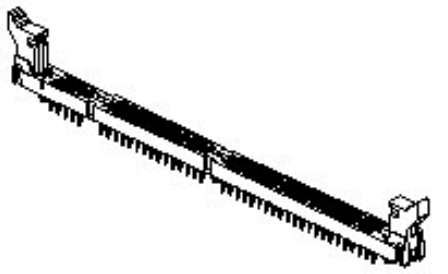
This document was generated on 04/13/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0712510022

Status: Active

Description: 1.27mm (.050") Pitch DIMM Socket, Vertical, Multiple Keys, Plastic Peg, 168 Circuits, 3.3V Unbuffered



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-71243-9999 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	Memory Module Sockets
Series	71251
Comments	Function Key Offset Right, Voltage Key Center
Component Type	Memory Module
JEDEC Outline	MO-161
Product Name	DIMM

Physical

Circuits (Loaded)	168
Circuits (maximum)	168
Color - Resin	Black, Natural
Durability (mating cycles max)	25
Entry Angle	Vertical (Top Entry)
Flammability	94V-0
Function Key	Offset Right
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)	0.127 In
PC Tail Length (mm)	3.23 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Pitch - Term. Interface (in)	0.050 In
Pitch - Term. Interface (mm)	1.27 mm
Plating min: Mating (µin)	2
Plating min: Mating (µm)	0.05
Plating min: Termination (µin)	150
Plating min: Termination (µm)	3.81
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	1A
Voltage - Maximum	100V AC (RMS)/DC
Voltage Key	Center

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
71251Series

Mates With
JEDEC MO-161 modules

Solder Process Data

Lead-free Process Capability	Wave Capable (TH only)

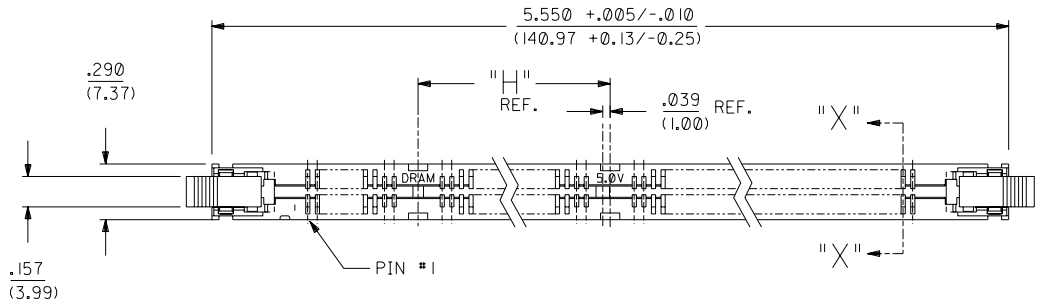
Material Info

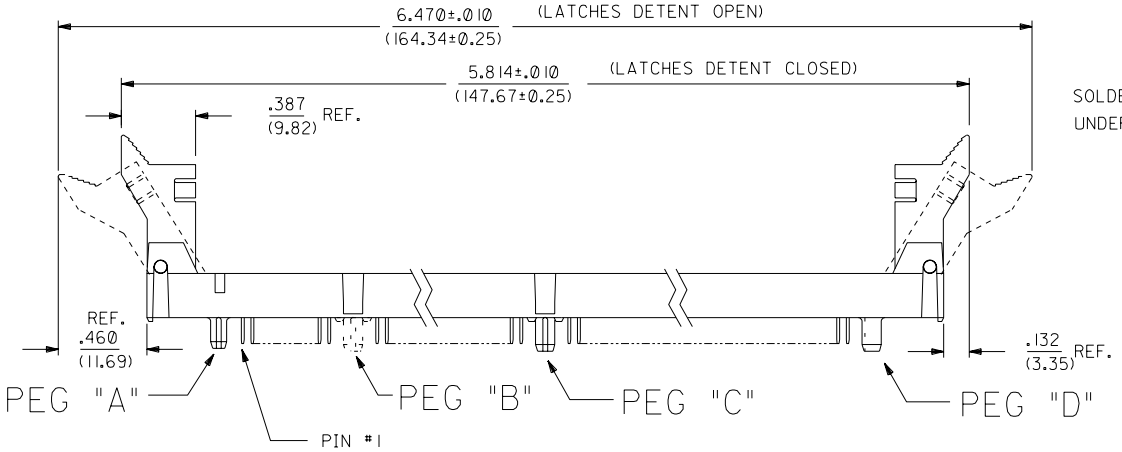
Reference - Drawing Numbers

Product Specification	PS-71243-9999
Sales Drawing	SDA-71251-0***

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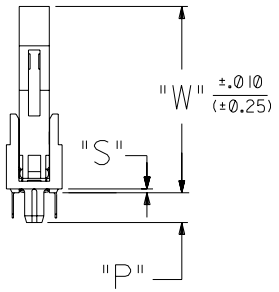


71251-0004 SHOWN

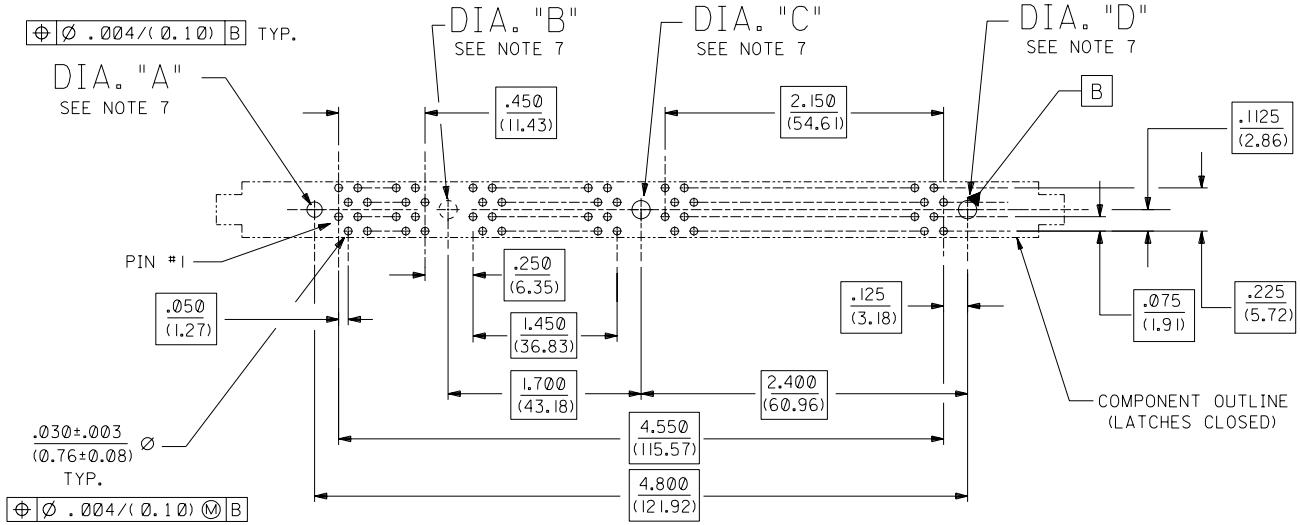
NOTES:
1. CARD SLOT ACCEPTS .050±.004 (1.27±0.10) MODULE THICKNESS. (MEASURED OVER P.C. PADS).
2. ALL PEGS ARE INTERFERENCE FITS TO PCB UNLESS NOTED ON THE DWG.
3. REFER TO PRODUCT SPEC PS-71243-9999 FOR PERFORMANCE SPECIFICATIONS.
4. PRODUCT IS PACKAGED IN TRAYS.
5. RECOMMENDED MODULE LAYOUT SHALL BE PER JEDEC MO-161.
6. RECOMMENDED PLATING ON MODULE PADS: 30 MICROINCH/(0.76 MICROMETER) MINIMUM HARD GOLD (Au) OVER 79 MICROINCH/(2.0 MICROMETER) MINIMUM NICKEL (Ni).
7. SEE CHART FOR HOLE SIZE AND PRESENCE AND PLATING OPTION.
8. PRODUCT WILL HAVE DATE CODE STAMPED ON SIDE OF HOUSING.

MATERIALS:
HOUSING - GLASS FILLED LIQUID CRYSTAL POLYMER (LCP), UL 94V-0, COLOR: BLACK.
TERMINAL - PHOSPHOR BRONZE
LATCHES - GLASS FILLED HIGH TEMPERATURE NYLON, UL 94V-0, COLOR: IVORY.

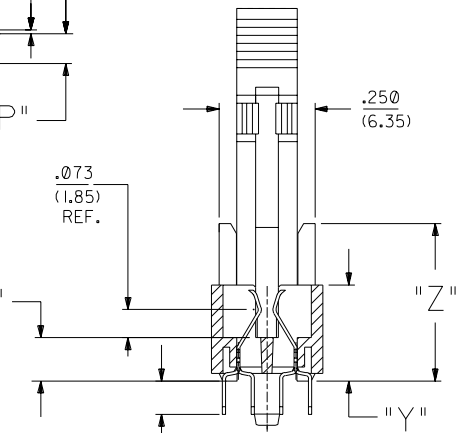
PLATING:
CONTACT AREA: OPTION A: GOLD (Au) FLASH: THICKNESS=2-10 MICROINCH/(0.05-0.25 (0.05-0.25 MICROMETER), OVER PALLADIUM-NICKEL (Pd-Ni): THICKNESS=30 MICROINCH/(0.76 MICROMETER) MINIMUM.
OPTION B: GOLD (Au) FLASH: THICKNESS=2-10 MICROINCH/(0.05-0.25 MICROMETER), OVER PALLADIUM-NICKEL (Pd-Ni): THICKNESS=20 MICROINCH/(0.51 MICROMETER) MINIMUM.
SOLDER TAILS: TIN (Sn): THICKNESS=150 MICROINCH/(3.81 MICROMETER) MINIMUM.
UNDERPLATE: NICKEL (Ni) OVER ENTIRE CONTACT.



NOTE FOR LEAD FREE CONVERSION:
THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.



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



SECTION "X-X"

SCALE 4:1

H1	ADD LEAD FREE NOTE ECN# UCP2004-1732 DMORGAN 04/03/09	3	H
H	RELEASE -0027 ECN# UDT2000-1151 DMORGAN 00/05/19	2	F3
H	RELEASE -0027 ECN# UDT2000-1151 DMORGAN 00/05/19	1	H1
G	CHG Sn-Pb THICKNESS ECN# UDT1999-0454 DMORGAN 99/08/09		
F3	REVISED PER ECR# U80435 97-8-8 LAURX		
F2	REVISED PER ECR# U71162 97-4-15 LAURX		
F1	REVISED PER ECR# U70367 96-10-9 LAURX		
F	REVISED PER ECR# U61133 96-9-25 LAURX		
E1	REVISED PER ECR# U60836 1-19-96 JCL		
E	REVISED PER ECR# U60682 12-7-95 JCL		
D2	REVISED PER ECR# U60452 10-10-95 JCL		
D1	REVISED PER ECR# U60361 9-18-95 JCL		
D	REVISED PER ECR# U51288 8-4-95 JCL		
LTR.	REVISIONS	MFG.	SH. REV.

REVISE ONLY ON CAD SYSTEM

DIMENSIONS SHOWN (METRIC) INCH
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°

	INCH	METRIC
3 PLACE	± .005	---
2 PLACE	± ---	± 0.13
1 PLACE	---	± 0.25

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DRWG. BY	DCB	CHK'D. BY	DCB
APP'D. BY	DCB	SCALE	2:1

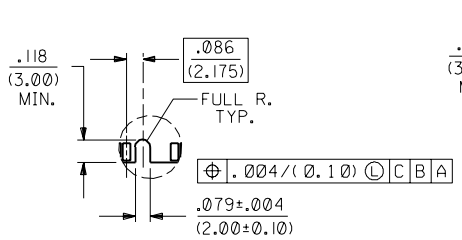
TITLE
.050/(1.27) PITCH MULTI-KEY
168 CKT DIMM RAM ASSY
17.8mm LATCH SALES DWG

molex MOLEX INCORPORATED LISLE,ILL. 60532 U.S.A.
SHEET NO. 1 OF 3
DATE 10/10/94
PART NO. SEE CHART
DRWG. NO. SDA-71251-0***
FILE NAME S71251@1.DGN
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.
DIV. CP
SIZE C

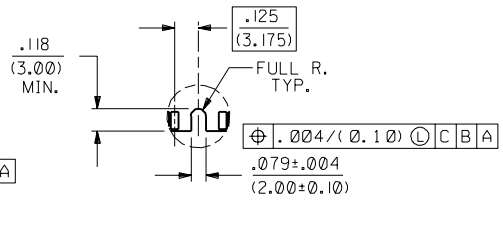
71251

71251

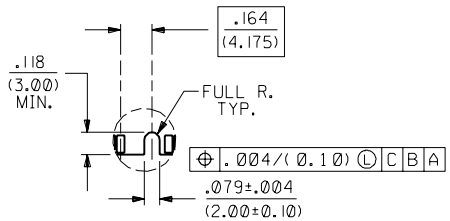
PART NUMBER	COLOR	DESCRIPTION	FUNCTION KEY	VOLTAGE KEY	DIA. "A"	DIA. "B"	DIA. "C"	DIA. "D"	DIM. "H"	DIM. "P"	DIM. "S"	DIM. "T"	DIM. "W"	DIM. "X"	DIM. "Y"	DIM. "Z"	CONTACT AREA PLATING
71251-0001	BLACK	3.3 VOLT STD DRAM	CENTER	CENTER	.080±.002 (2.03±0.05)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.700 (43.18)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0004	BLACK	5.0 VOLT STD DRAM	CENTER	OFFSET LEFT	.080±.002 (2.03±0.05)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.700 (43.18)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0012	BLACK	3.3 VOLT UNBUFFERED	OFFSET RIGHT	CENTER	.080±.002 (2.03±0.05)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.661 (42.19)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0013	BLACK	5.0 VOLT UNBUFFERED	OFFSET RIGHT	OFFSET LEFT	.080±.002 (2.03±0.05)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.661 (42.19)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0016	BLACK	3.3 VOLT SYNCHRONOUS	OFFSET LEFT	CENTER	.080±.002 (2.03±0.05)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.739 (44.17)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0017	BLACK	5.0 VOLT SYNCHRONOUS	OFFSET LEFT	OFFSET LEFT	.080±.002 (2.03±0.05)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.739 (44.17)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A



OFFSET LEFT KEY



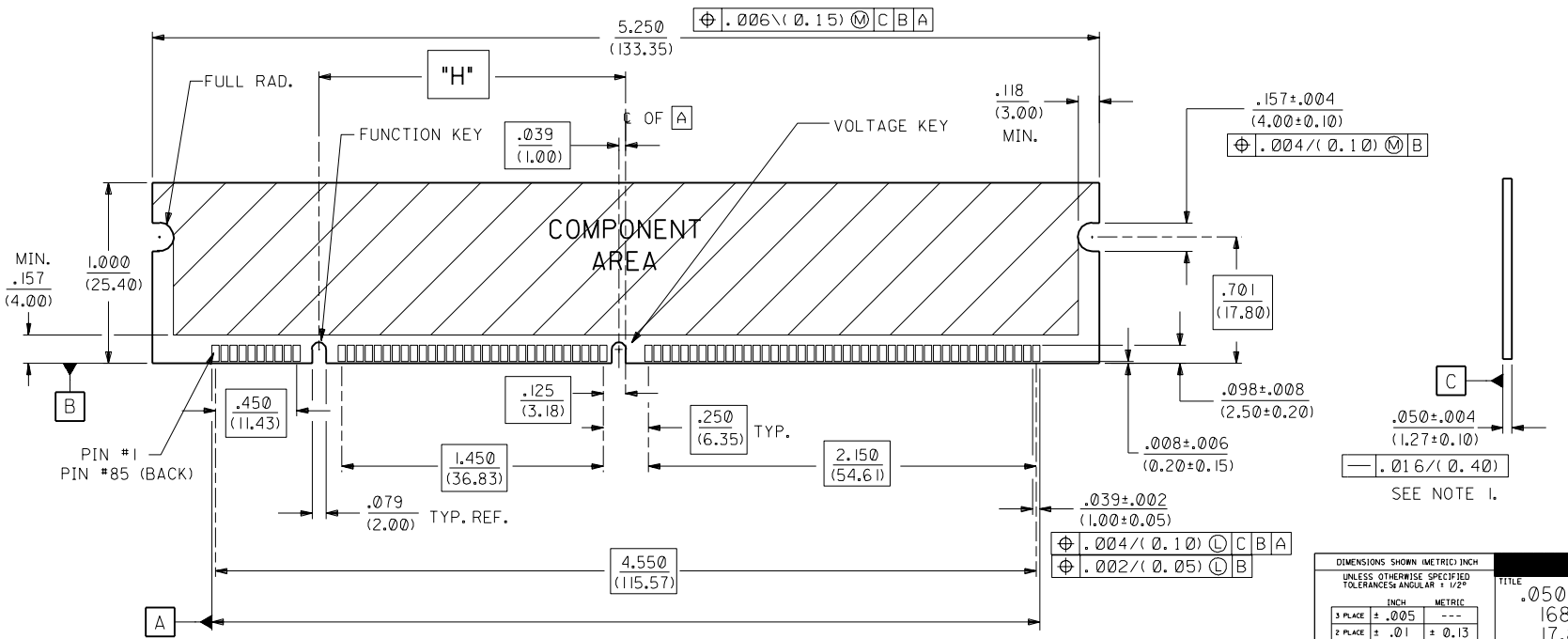
CENTERED KEY



OFFSET RIGHT KEY

NOTES:

1. STRAIGHTNESS OF MODULE APPLIES TO THE AREA FROM THE BOTTOM OF THE CARD UP .157/(4.00).
2. IF TIE BARS ARE ATTACHED TO PADS, THE TIE BAR SHOULD BE ON AN INTERNAL LAYER, SO THAT THE REMNANT CANNOT CAUSE DAMAGE TO THE CONTACTS.



RECOMMENDED MODULE LAYOUT
168 CKT 5.0V DRAM SHOWN

F3	SEE SHEET 1
F2	SEE SHEET 1
F1	SEE SHEET 1
F	SEE SHEET 1
E1	SEE SHEET 1
E	SEE SHEET 1
D2	SEE SHEET 1
D1	SEE SHEET 1
D	SEE SHEET 1
C	SEE SHEET 1
B1	SEE SHEET 1
B	SEE SHEET 1
A	SEE SHEET 1

71251

MFG.	SH.	REV.	LTR.	REVISIONS

REVISE ONLY ON CAD SYSTEM

DIMENSIONS SHOWN (METRIC) INCH
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°

	INCH	METRIC
3 PLACE	± .005	---
2 PLACE	± .01	± 0.13
1 PLACE	---	± 0.25

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DRWG. BY	CHK'D. BY	APP'D. BY	SCALE
DCB	DCB	DCB	2: 1

TITLE
.050/(1.27) PITCH MULTI-KEY
168 CKT DIMM RAM ASSY
17.8mm LATCH SALES DWG.

MOLEX INCORPORATED
LISLE,ILL. 60532 U.S.A.

SHEET NO. 2
DATE 10/10/94
PART NO. SEE CHART
DRWG. NO. SDA-71251-0***
FILE NAME S71251Q2.DGN

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

DIV. CP
SIZE C

PART NUMBER	COLOR	DESCRIPTION	FUNCTION KEY	VOLTAGE KEY	DIA. "A"	DIA. "B"	DIA. "C"	DIA. "D"	DIM. "H"	DIM. "P"	DIM. "S"	DIM. "T"	DIM. "W"	DIM. "X"	DIM. "Y"	DIM. "Z"	CONTACT AREA PLATING
71251-0001	BLACK	3.3 VOLT STD DRAM	SEE SHEET 2														OPTION A
71251-0002	BLACK	3.3 VOLT STD DRAM	CENTER	CENTER	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	NONE	1.700 (43.18)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0003	BLACK	5.0 VOLT STD DRAM	CENTER	OFFSET LEFT	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	NONE	1.700 (43.18)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0004	BLACK	5.0 VOLT STD DRAM	SEE SHEET 2														OPTION A
71251-0005	BLACK	5.0 VOLT UNBUFFERED	OFFSET RIGHT	OFFSET LEFT	.080±.002 (2.03±0.05)	NONE	NONE	.080±.002 (2.03±0.05)	1.661 (42.19)	.125 (3.18)	.035 (0.89)	.102 (2.59)	.985 (25.02)	.128 (3.25)	.265 (6.73)	.425 (10.79)	OPTION A
71251-0006	BLACK	5.0 VOLT STD DRAM	CENTER	OFFSET LEFT	.080±.002 (2.03±0.05)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.080±.002 (2.03±0.05)	1.700 (43.18)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0007	BLACK	3.3 VOLT STD DRAM	CENTER	CENTER	.080±.002 (2.03±0.05)	NONE	.080±.002 (2.03±0.05)	.080±.002 (2.03±0.05)	1.700 (43.18)	.140 (3.56)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0008	BLACK	5.0 VOLT STD DRAM	CENTER	OFFSET LEFT	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.700 (43.18)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0009	BLACK	5.0 VOLT STD DRAM	CENTER	OFFSET LEFT	.080±.002 (2.03±0.05)	NONE	NONE	.080±.002 (2.03±0.05)	1.700 (43.18)	.125 (3.18)	.035 (0.89)	.102 (2.59)	.985 (25.02)	.128 (3.25)	.265 (6.73)	.425 (10.79)	OPTION A
71251-0010	BEIGE	3.3 VOLT STD DRAM	CENTER	CENTER	.080±.002 (2.03±0.05)	NONE	NONE	.080±.002 (2.03±0.05)	1.700 (43.18)	.125 (3.18)	.035 (0.89)	.112 (2.84)	.985 (25.02)	.128 (3.25)	.265 (6.73)	.425 (10.79)	OPTION A
71251-0011	BLACK	3.3 VOLT STD DRAM	CENTER	CENTER	.093 +.003/-.000 (2.36+0.08/-0.00)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.700 (43.18)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0012	BLACK	3.3 VOLT UNBUFFERED	SEE SHEET 2														OPTION A
71251-0013	BLACK	5.0 VOLT UNBUFFERED	SEE SHEET 2														OPTION A
71251-0014	BLACK	3.3 VOLT UNBUFFERED	OFFSET RIGHT	CENTER	.080±.002 (2.03±0.05)	NONE	NONE	.080±.002 (2.03±0.05)	1.661 (42.19)	.125 (3.18)	.035 (0.89)	.112 (2.84)	.985 (25.02)	.128 (3.25)	.265 (6.73)	.425 (10.79)	OPTION A
71251-0015	BLACK	3.3 VOLT STD DRAM	CENTER	CENTER	.080±.002 (2.03±0.05)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.700 (43.18)	.155 (3.94)	.020 (0.51)	.117 (2.97)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0016	BLACK	3.3 VOLT SYNCHRONOUS	SEE SHEET 2														OPTION A
71251-0017	BLACK	5.0 VOLT SYNCHRONOUS	SEE SHEET 2														OPTION A
71251-0018	BLACK	3.3 VOLT UNBUFFERED	OFFSET RIGHT	CENTER	.093 +.003/-.000 (2.36+0.08/-0.00)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.661 (42.19)	.140 (3.56)	.035 (0.89)	.102 (2.59)	.985 (25.02)	.128 (3.25)	.265 (6.73)	.425 (10.79)	OPTION A
71251-0019	BLACK	5.0 VOLT STD DRAM	CENTER	OFFSET LEFT	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	NONE	1.700 (43.18)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION B
71251-0020	BLACK	3.3 VOLT STD DRAM	CENTER	CENTER	.080±.002 (2.03±0.05)	NONE	.080±.002 (2.03±0.05)	.080±.002 (2.03±0.05)	1.700 (43.18)	.140 (3.56)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION B
71251-0021	BLACK	3.3 VOLT STD DRAM	CENTER	CENTER	.080±.002 (2.03±0.05)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.700 (43.18)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION B
71251-0022	BLACK	3.3 VOLT UNBUFFERED	OFFSET RIGHT	CENTER	.080±.002 (2.03±0.05)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.661 (42.19)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION B
71251-0023	BLACK	3.3 VOLT UNBUFFERED	OFFSET RIGHT	CENTER	.080±.002 (2.03±0.05)	NONE	NONE	.080±.002 (2.03±0.05)	1.661 (42.19)	.125 (3.18)	.035 (0.89)	.102 (2.59)	.985 (25.02)	.128 (3.25)	.265 (6.73)	.425 (10.79)	OPTION A
71251-0024	BLACK	3.3 VOLT UNBUFFERED	OFFSET RIGHT	CENTER	.080±.002 (2.03±0.05)	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	1.661 (42.19)	.155 (3.94)	.020 (0.51)	.105 (2.67)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A
71251-0026	BEIGE	3.3 VOLT STD DRAM	CENTER	CENTER	.080±.002 (2.03±0.05)	NONE	NONE	.080±.002 (2.03±0.05)	1.700 (43.18)	.125 (3.18)	.035 (0.89)	.090 (2.29)	.985 (25.02)	.128 (3.25)	.265 (6.73)	.425 (10.79)	OPTION A
71251-0027	BLACK	3.3 VOLT SYNCHRONOUS	OFFSET LEFT	CENTER	NONE	.093 +.003/-.000 (2.36+0.08/-0.00)	.093 +.003/-.000 (2.36+0.08/-0.00)	NONE	1.739 (44.17)	.155 (3.94)	.020 (0.51)	.127 (3.23)	.970 (24.64)	.113 (2.87)	.250 (6.35)	.410 (10.41)	OPTION A

LTR.	REVISIONS	LTR.	REVISIONS
		H	SEE SHEET 1
		F3	SEE SHEET 1

DIMENSIONS SHOWN (METRIC) INCH

UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°

	INCH	METRIC
3 PLACE	± .005	---
2 PLACE	± .01	± 0.13
1 PLACE	---	± 0.25

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REVISE ONLY ON CAD SYSTEM

DRWG. BY DCB | CHK'D. BY DCB | APP'D. BY DCB | SCALE 2:1

TITLE: .050/(1.27) PITCH MULTI-KEY 168 CKT DIMM RAM ASSY 17.8mm LATCH SALES DWG.

MOLEX INCORPORATED, LISLE, ILL. 60532 U.S.A.

SHEET NO. 3 | DATE 12/07/95

PART NO. SEE CHART | DRWG. NO. SDA-71251-0***

FILE NAME S71251O3.DGN

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DIV. CP | SIZE C