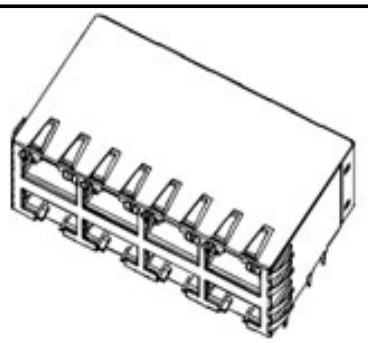
molex
one company > a world of innovation

This document was generated on 06/07/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0678380104
Status: Active
Overview: modular_plugs_jacks
Description: Stacked Modular Jack with lightpipes, Right Angle, with Snap-Fit Pegs, with Side Panel Grounding Tabs and Inner Shield Ground Tabs, 4/2, 8 Ports



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-67838-002 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	Modular Jacks/Plugs
Series	67838
Comments	With Lightpipes
Component Type	PCB Jack
Magnetic	No
Overview	modular_plugs_jacks
Performance Category	3
Power over Ethernet (PoE)	N/A
Product Name	RJ45

Physical

Boot Color	N/A
Color - Resin	Black, Clear
Durability (mating cycles max)	500
Inverted / Top Latch	Yes
Keying to Mating Part	None
Lightpipes/LEDs	Lightpipes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin-Lead
Material - Resin	Polycarbonate, Polyester
Orientation	Right Angle (Side Entry)
PCB Locator	Yes
PCB Retention	Yes
Packaging Type	Tray
Panel Mount	Without Flange
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)	50
Plating min: Mating (µm)	1.27
Plating min: Termination (µin)	50
Plating min: Termination (µm)	1.27
Ports	8
Positions / Loaded Contacts	4/2
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +70°C
Termination Interface: Style	Through Hole
Waterproof / Dustproof	No
Wire/Cable Type	N/A

Electrical

Current - Maximum per Contact	1.5A
Grounding to PCB	Yes

EU RoHS
Not 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
67838Series

Mates With
FCC 68 Plugs

Use With
Shielded RJ45 Plugs

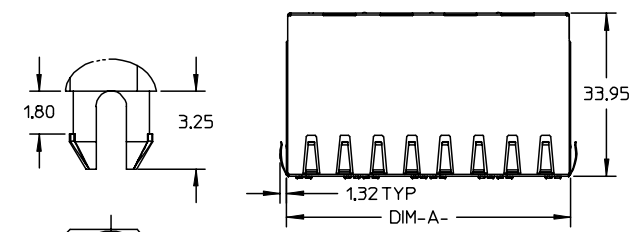
Grounding to Panel	With All Panel Grounding Tabs
Shielded	Yes
Voltage - Maximum	150V AC (RMS)

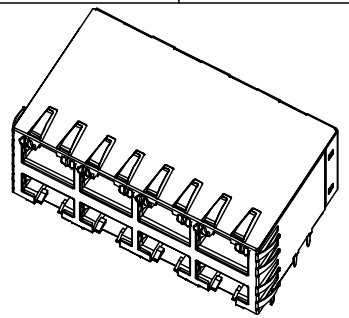
Material Info

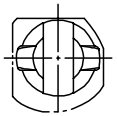
Reference - Drawing Numbers

Product Specification	PS-67838-002
Sales Drawing	SD-67838-001

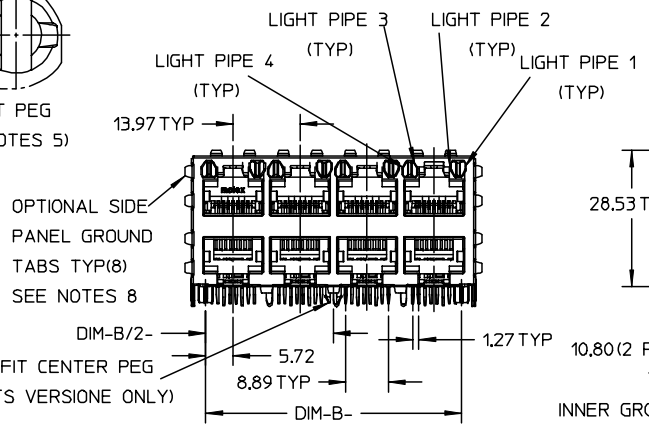
This document was generated on 06/07/2010
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

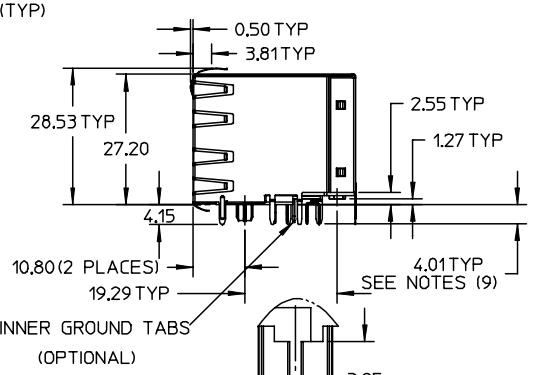


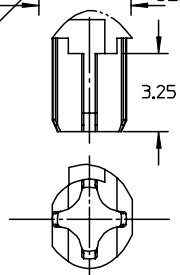


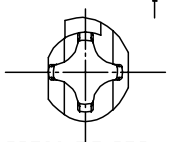


SNAP-FIT PEG
STYLE (NOTES 5)









PRESS-FIT PEG
STYLE (NOTES 5)

ASSEMBLY MATERIAL No.	No. OF PORTS	PEG STYLE	DIM-A-	DIM-B-	SIDE PANEL GROUND TABS	INNER GROUND TABS
67838-0001	8 (2X4)	SNAP-FIT	59.18	53.34	YES	YES
67838-2001	8 (2X4)	SNAP-FIT	59.18	53.34	NO	YES
67838-3001	8 (2X4)	SNAP-FIT	59.18	53.34	YES	NO
67838-4001	8 (2X4)	SNAP-FIT	59.18	53.34	NO	NO
67838-0004	8 (2X4)	PRESS-FIT	59.18	53.34	YES	YES
67838-2004	8 (2X4)	PRESS-FIT	59.18	53.34	NO	YES
67838-3004	8 (2X4)	PRESS-FIT	59.18	53.34	YES	NO
67838-4004	8 (2X4)	PRESS-FIT	59.18	53.34	NO	NO
67838-0002	12(2X6)	SNAP-FIT	87.12	81.28	YES	YES
67838-2002	12(2X6)	SNAP-FIT	87.12	81.28	NO	YES
67838-3003	12(2X6)	SNAP-FIT	87.12	81.28	YES	NO
67838-4002	12(2X6)	SNAP-FIT	87.12	81.28	NO	NO
67838-0005	12(2X6)	PRESS-FIT	87.12	81.28	YES	YES
67838-2005	12(2X6)	PRESS-FIT	87.12	81.28	NO	YES
67838-3005	12(2X6)	PRESS-FIT	87.12	81.28	YES	NO
67838-4005	12(2X6)	PRESS-FIT	87.12	81.28	NO	NO
67838-0003	16(2X8)	SNAP-FIT	115.06	109.22	YES	YES
67838-2002	16(2X8)	SNAP-FIT	115.06	109.22	NO	YES
67838-3003	16(2X8)	SNAP-FIT	115.06	109.22	YES	NO
67838-4003	16(2X8)	SNAP-FIT	115.06	109.22	NO	NO
67838-0006	16(2X8)	PRESS-FIT	115.06	109.22	YES	YES
67838-2006	16(2X8)	PRESS-FIT	115.06	109.22	NO	YES
67838-3006	16(2X8)	PRESS-FIT	115.06	109.22	YES	NO
67838-4006	16(2X8)	PRESS-FIT	115.06	109.22	NO	NO

NOTES:

1.MATERIAL:
- HOUSING: POLYESTER(PBT), GLASS FILLED,UL94V-0.COLOR: BLACK.
- LIGHT PIPES: POLYCARBONATE,UL94V-0. COLOR: CLEAR.
- TERMINALS: PHOSPHOR BRONZE.
- SHIELD: BRASS.

2.PLATING:
- TERMINALS: 50u" MIN. GOLD PLATE AND 50u" MIN.TIN-LEAD PLATE OVER 50u" MIN. NICKEL UNDERPLATE.
- SHIELD: SELECTIVE 50u" MIN. TIN-LEAD PLATE AT SOLDERING TAILS OVER 50u" MIN. NICKEL UNDERPLATE.

3.PRODUCT SPECIFICATION: PS-67838-002.

4.PACKAGING: CONNECTOR ASSEMBLE IN THERMOFORMED TRAY.

5.CONNECTORS AVAILABLE WITH EITHER SNAP-FIT OR PRESS-FIT PEGS.

6.CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.

7.P.C.B LAYOUT SHOWN AS RECOMMEND LAYOUT (SHEET 2).

8.AVAILABLE WITH THE (8) PANEL GROUND TABS REMOVE ON EACH SIDE FOR SIDE TO SIDE STACKABILITY.

9.TERMINAL LENGTH MAY BE DIFFERENT FROM TERMINAL TO TERMINAL.

NEW RELEASE
EC NO: SH2003-0013
DRWN: GRMA
CH'K:
APPR: SHUANG
DESCRIPTION
REV
A

QUALITY SYMBOLS
▼ = 0
Ⓒ = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 1/2 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

SCALE 1:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY

DIMENSION STYLE: MM ONLY

DRAWN BY: GRATE MA DATE: 2003/04/18

CHECKED BY: YAJUN DATE: 2003/04/18

APPROVED BY: SAM DATE: 2003/04/18

TITLE: STACKED MODULAR JACK WITH LIGHT PIPES

molex MOLEX INCORPORATED

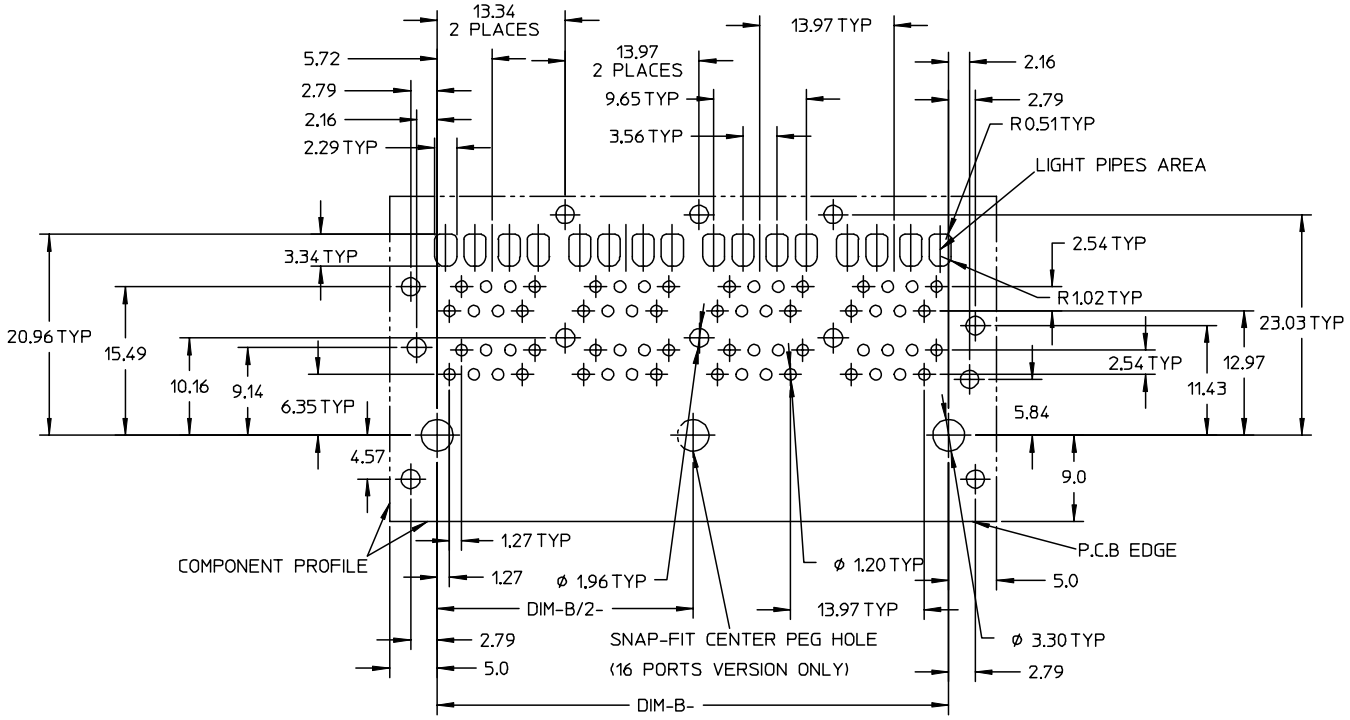
MATERIAL NO.: SEE CHART

DOCUMENT NO.: SD-67838-001

SHEET NO.: 1 OF 4

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

B



NOTES:

1. DIMENSION TOLERANCE: .XX+/-0.05
   .X +/-0.3.
2. DIM-A- SEE THE SHEET 1.

NEW RELEASE	EC NO: SH2003-0013	2003/04/16	DESCRIPTION
	DRWN: GRMA	2003/04/17	
	CH'KD:		
	APPR: SHUANG	2003/04/17	
A			REV

QUALITY SYMBOLS

▼ = 0

▽C = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.3	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE	1:1
DESIGN UNITS	METRIC
DIMENSION STYLE	MM ONLY
DRAWN BY	GRATE MA
DATE	2003/04/18
CHECKED BY	YAJUN
DATE	2003/04/18
APPROVED BY	SAM
DATE	2003/04/18

THIRD ANGLE PROJECTION

REVISE ON CAD ONLY

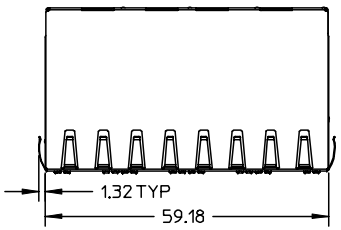
TITLE: STACKED MODULAR JACK WITH LIGHT PIPES

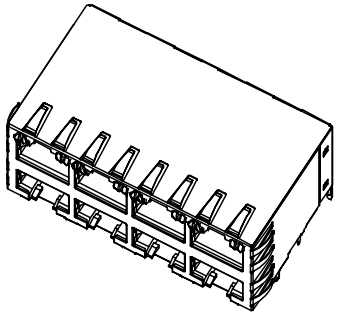
MOLEX INCORPORATED

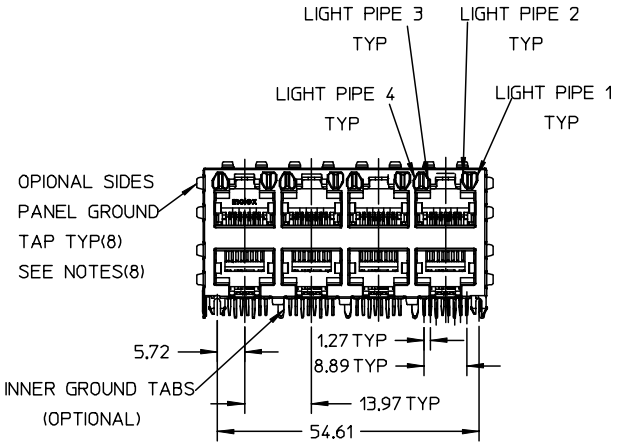
MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE SHEET 1	SD-67838-001	2 OF 4

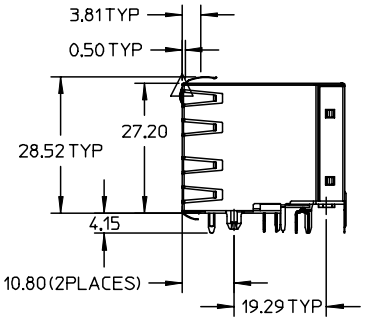
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

B









NOTES:

1.MATERIAL:
- HOUSING: POLYESTER(PBT), GLASS FILLED,UL94V-0.COLOR: BLACK.
- LIGHT PIPES: POLYCARBONATE.UL94V-0.COLOR: CLEAR.
- TERMINALS: PHOSPHOR BRONZE.
- SHIELD: BRASS.

2.PLATING:
- TERMINALS: 50u" MIN. GOLD PLATE AND 50u" MIN.TIN-LEAD PLATE OVER 50u" MIN. NICKEL UNDERPLATE.
- SHIELD: SELECTIVE 50u" MIN. TIN-LEAD PLATE AT SOLDERING TAILS OVER 50u" MIN. NICKEL UNDERPLATE.

3.PRODUCT SPECIFICATION: PS-67838-002.

4.PACKAGING: CONNECTOR ASSEMBLE IN THERMOFORMED TRAY.

5.CONNECTORS AVAILABLE WITH PRESS-FIT PEGS ONLY.

6.CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.

7.P.C.B LAYOUT SHOWN AS RECOMMEND LAYOUT (SHEET 4).

8.AVAILABLE WITH THE (8) PANEL GROUND TABS REMOVE ON EACH SIDE FOR SIDE TO SIDE STACKABILITY.

9.TERMINAL LENGTH MAY BE DIFFERENT FROM TERMINAL TO TERMINAL.

ASSEMBLY MATERIAL NO.	NO. OF PORTS	PEGS STYLE	SIDE PANEL GROUND TABS	INNER SHIELD GROUND TABS
67838-0104	8(2X4)	SNAP-FIT	YES	YES
67838-3104	8(2X4)	SNAP-FIT	NO	YES
67838-3104	8(2X4)	SNAP-FIT	YES	NO
67838-4104	8(2X4)	SNAP-FIT	NO	NO

NEW RELEASE
EC NO: SH2003-0013 2003/04/16
DRWN: GRMA 2003/04/17
CH'KD:
APPR: SHUANG 2003/04/17
DESCRIPTION
A
REV

QUALITY SYMBOLS
▼ = 0
▽ = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.3	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE 1:1
DESIGN UNITS METRIC
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
DIMENSION STYLE MM ONLY
DRAWN BY GRATE MA DATE 2003/04/18
CHECKED BY YAJUN DATE 2003/04/18
APPROVED BY SAM DATE 2003/04/18

TITLE
STACKED MODULAR JACK WITH LIGHT PIPES

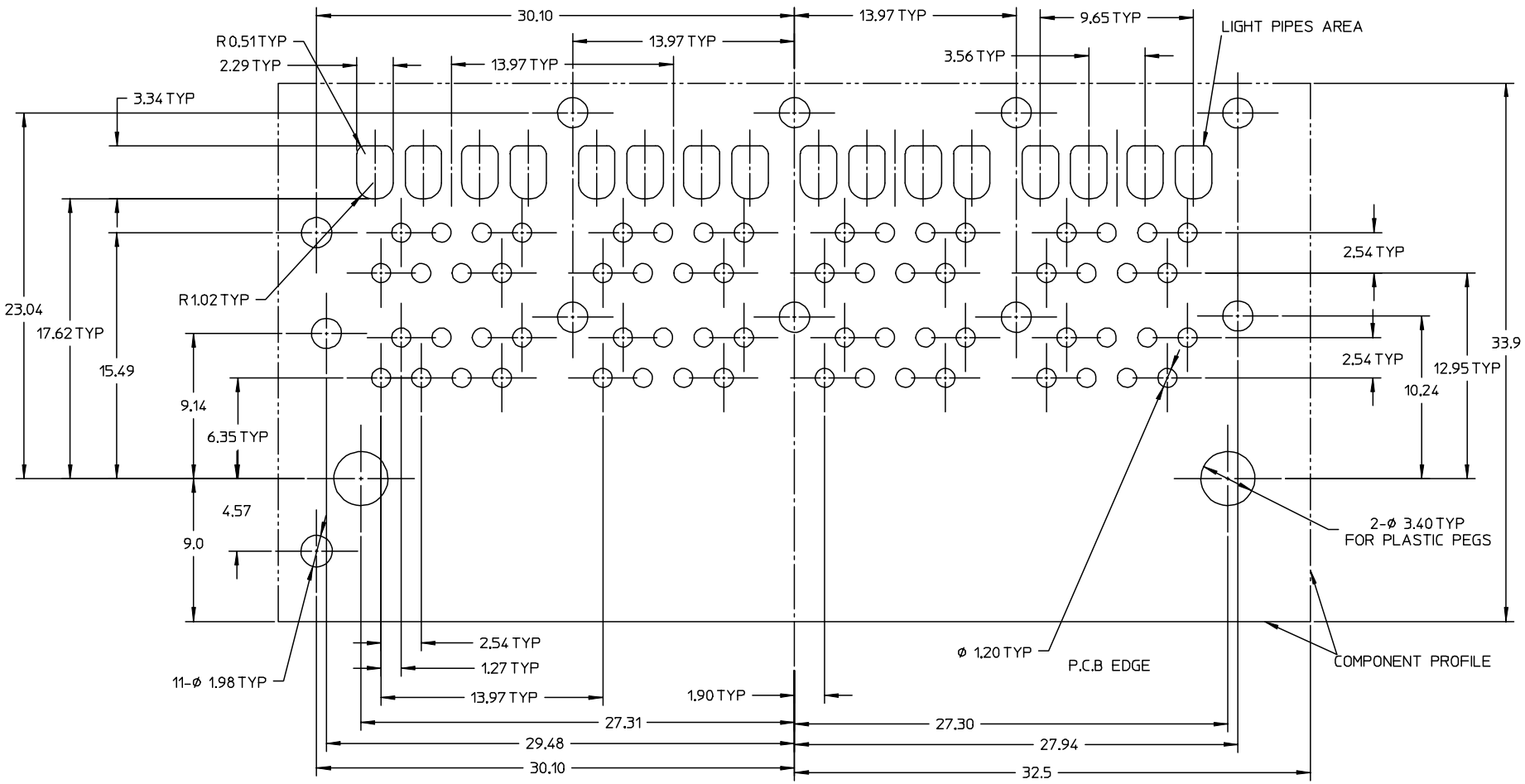
molex MOLEX INCORPORATED

MATERIAL NO. SEE CHART
DOCUMENT NO. SD-67838-001
SHEET NO. 3 OF 4

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

B

67838



RECOMMENDED P.C.B LAYOUT
COMPONENT SIDE

NOTES:

1. DIMENSION TOLERANCE: .XX+/-0.05
   .X +/-0.3.
2. DIM-A- SEE THE SHEET 1.

REV	DESCRIPTION	
A	NEW RELEASE	EC NO: SH2003-0013 2003/04/16 DRWN: GRMA 2003/04/17 CH'KD: APPR: SHUANG 2003/04/17

QUALITY SYMBOLS
▼ = 0
Ⓒ = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.3	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

SCALE	DESIGN UNITS
1:1	METRIC

THIRD ANGLE PROJECTION | REVISE ON CAD ONLY

DIMENSION STYLE: MM ONLY

DRAWN BY	DATE
GRATE MA	2003/04/18
CHECKED BY	DATE
YAJUN	2003/04/18
APPROVED BY	DATE
SAM	2003/04/18

TITLE: STACKED MODULAR JACK WITH LIGHT PIPES

molex MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE SHEET 3	SD-67838-001	4 OF 4

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

B

fb_frame_B
rev. B1 2000/08/01