

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0443801010](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Right Angle, Low Profile, Inverted, 8/8

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Packaging Specification \(PDF\)](#)
[Application Specification \(PDF\)](#)
[Product Specification PS-43860-003 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

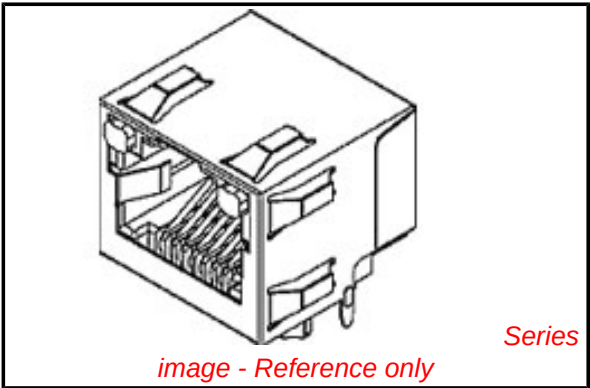
CSA LR19980
UL E107635

General

Product Family Modular Jacks/Plugs
Series [44380](#)
Component Type PCB Jack
Magnetic No
Overview [modular_plugs_jacks](#)
Performance Category 3
Power over Ethernet (PoE) N/A
Product Literature Order No USA-154
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 Brass, Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic, Polysulfone
Orientation Right Angle (Side Entry)
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.039 In
PCB Thickness Recommended (mm) 1.00 mm
Packaging Type Tray
Panel Mount Without Flange
Pitch - Mating Interface (in) 0.040 In
Pitch - Mating Interface (mm) 1.02 mm
Pitch - Term. Interface (in) 0.040 In
Pitch - Term. Interface (mm) 1.02 mm
Plating min: Mating (µin) 50
Plating min: Mating (µm) 1.25
Plating min: Termination (µin) 100
Plating min: Termination (µm) 2.5
Ports 1
Positions / Loaded Contacts 8/8
Surface Mount Compatible (SMC) Yes
Temperature Range - Operating -40°C to +85°C
Termination Interface: Style Through Hole



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
[44380Series](#)

Mates With
FCC 68 Plugs

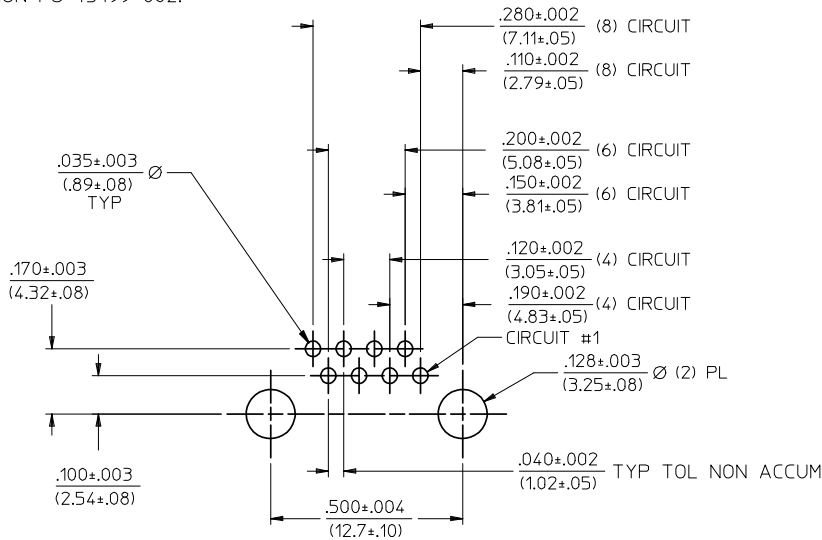
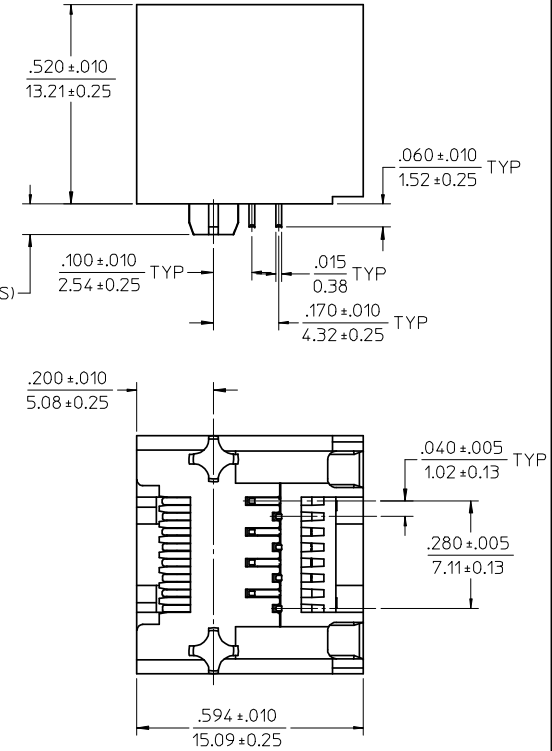
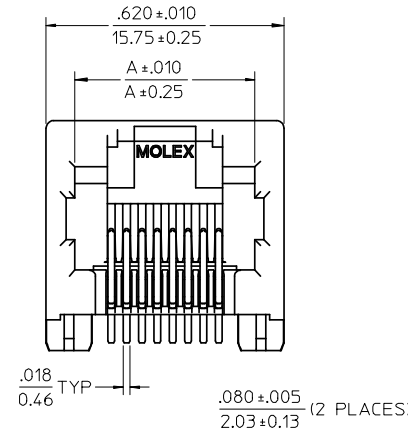
Waterproof / Dustproof	No
Wire/Cable Type	N/A
Electrical	
Current - Maximum per Contact	1.5A
Grounding to PCB	No
Grounding to Panel	With All Panel Grounding Tabs
Shielded	Yes
Voltage - Maximum	150V AC (RMS)
Solder Process Data	
Lead-free Process Capability	Wave Capable (TH only)
Material Info	
Reference - Drawing Numbers	
Application Specification	AS-43860-001
Packaging Specification	PK-44380-005
Product Specification	PS-43860-003, RPS-43860-004, RPS-43860-007, RPS-43860-008, RPS-43860-013
Sales Drawing	SD-44380-001

This document was generated on 06/08/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

NOTES

- 1) MATERIAL:
HOUSING: GLASS FILLED NYLON, 94V-0 COLOR: BLACK
TERMINALS: PHOSPHOR BRONZE, .015/(0.38) THICK
SHIELD: BRASS
- 2) PLATING:
TERMINALS:
SELECT GOLD IN CONTACT AREA: 50 MICROINCHES (1.27 MICROMETERS) MIN.,
*SELECT TIN IN PC TAIL AREA: 100 MICROINCHES (2.54 MICROMETERS) MIN.,
WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES (1.27 MICROMETERS) MIN.,
*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 TIN-LEAD IN THE PC TAIL AREA.
- 3) PRODUCT SPECIFICATION:
CONNECTOR PERFORMANCE SPECIFICATIONS PER MOLEX
PRODUCT SPECIFICATION PS-43860-003
- 4) PACKAGING OPTIONS:
CONNECTOR ASSEMBLIES IN EXTRUDED TUBES
PER PACKAGING SPECIFICATION PK-43860-004
- 5) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR
REFERENCE ONLY
- 6) CONFORMS TO F.C.C. REGULATION PART 68.5 FOR MODULAR JACKS.
- 7) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC
SPECIFICATION PS-45499-002.



PC BOARD LAYOUT
COMPONENT SIDE OF BOARD
RECOMMENDED PC BOARD THICKNESS .039/1.00

MATERIAL NUMBER	CONNECTOR SIZE	DIM. "A"	CIRCUITS
44380-0001	8	.470/11.94	8
44380-0002	6	.389/9.88	6
44380-0003	6	.389/9.88	4
44380-0019	8	.470/11.94	4

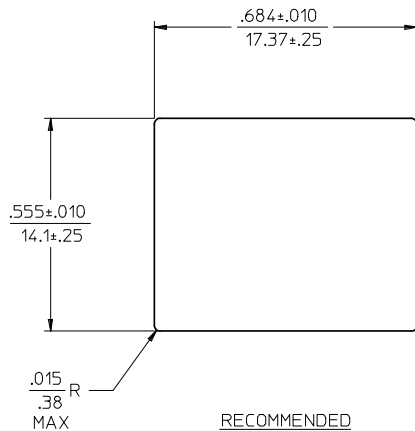
REV	DESCRIPTION
1	RECREATED IN 3D
2	EC NO: UCP2008-0965
3	DRWN:JBELL 2007/11/08
4	CHKD:LSCHMIDT 2007/12/04
5	APPR:FSMITH 2007/12/05

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)
▽=0	
▽=0	
	ANGULAR ±1/2°
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

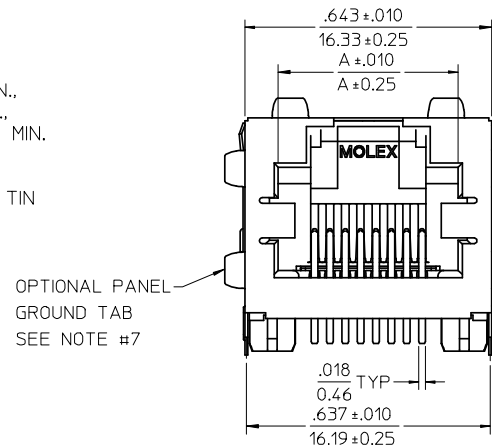
DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
IN/MM	4:1	INCH	
DRAWN BY	DATE	TITLE	
MAYO	1999/04/09	INVERTED MODULAR JACK ASSEMBLY (MINI-PCI COMPLIANT)	
CHECKED BY	DATE		
ROBERTS	1999/04/09		
APPROVED BY	DATE		
ROBERTS	1999/04/09		
MATERIAL NO.	DOCUMENT NO.		
SEE CHART	SD-44380-001		
SIZE			

MOLEX INCORPORATED	SHEET NO.
	1 OF 5
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

- NOTES
- 1) MATERIAL:
HOUSING: GLASS FILLED NYLON, 94V-0 COLOR: BLACK
TERMINALS: PHOSPHOR BRONZE, .015/(0.38) THICK
SHIELD: BRASS
- 2) PLATING:
TERMINALS:
SELECT GOLD IN CONTACT AREA: 50 MICROINCHES (1.27 MICROMETERS) MIN.,
*SELECT TIN IN PC TAIL AREA: 100 MICROINCHES (2.54 MICROMETERS) MIN.,
WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES (1.27 MICROMETERS) MIN.
SHIELD:
*100 MICROINCHES (2.54 MICROMETERS) NICKEL OVER 50 MICROINCHES
(1.27 MICROMETERS) COPPER UNDERPLATE, PCB GROUND TABS DIPPED IN TIN
*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 TIN-LEAD IN THE PC TAIL AREA.
- 3) PRODUCT SPECIFICATION:
CONNECTOR PERFORMANCE SPECIFICATIONS PER MOLEX
PRODUCT SPECIFICATION PS-43860-003
- 4) PACKAGING OPTIONS:
CONNECTOR ASSEMBLIES IN THERMOFORMED TRAYS
PER PACKAGING SPECIFICATION PK-44380-005
OPTION (44380-2004) PACKAGED IN TAPE AND REEL
- 5) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR
REFERENCE ONLY
- 6) CONFORMS TO F.C.C. REGULATION PART 68.5 FOR MODULAR JACKS
- 7) AVAILABLE WITH THE (2) SPECIFIED PANEL GROUND TABS
OMITTED FOR SIDE TO SIDE STACKABILITY, PER THE
ASSEMBLY MATERIAL NUMBER TABLE.
- 8) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC
SPECIFICATION PS-45499-002.

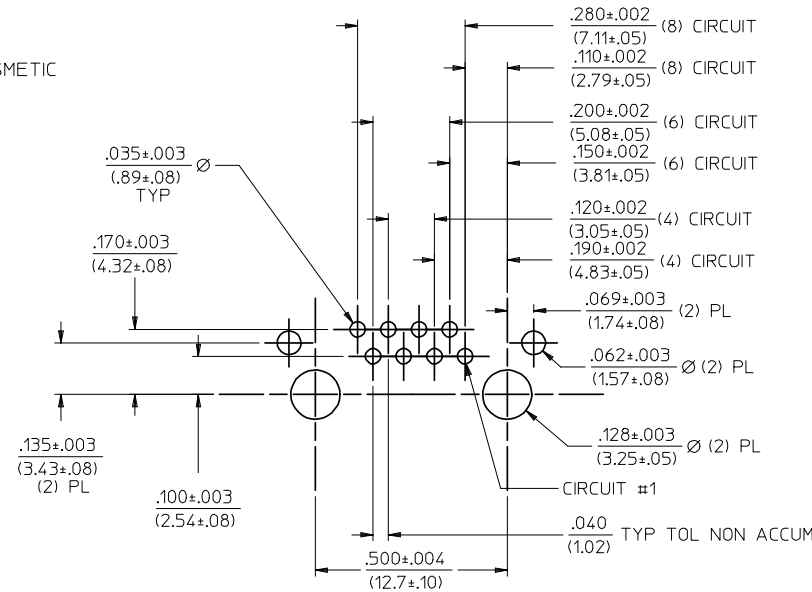
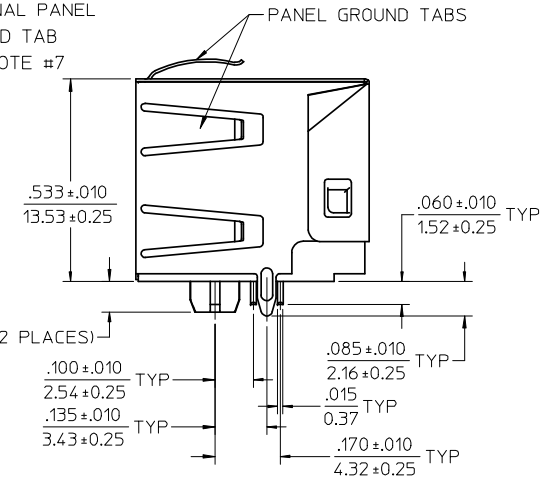


RECOMMENDED
PANEL
OPENING

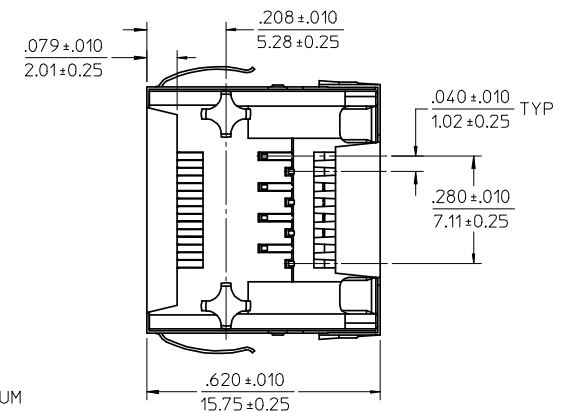


OPTIONAL PANEL
GROUND TAB
SEE NOTE #7

OPTIONAL PANEL
GROUND TAB
SEE NOTE #7



PC BOARD LAYOUT
COMPONENT SIDE OF BOARD
RECOMMENDED PC BOARD THICKNESS: .039/1.00

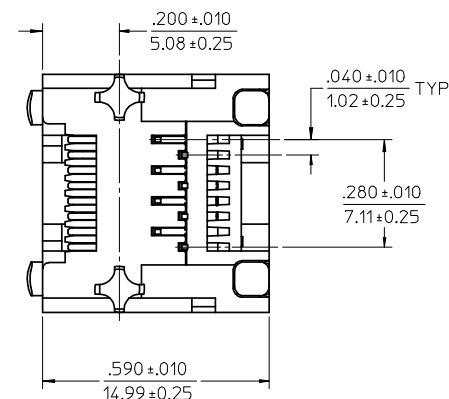
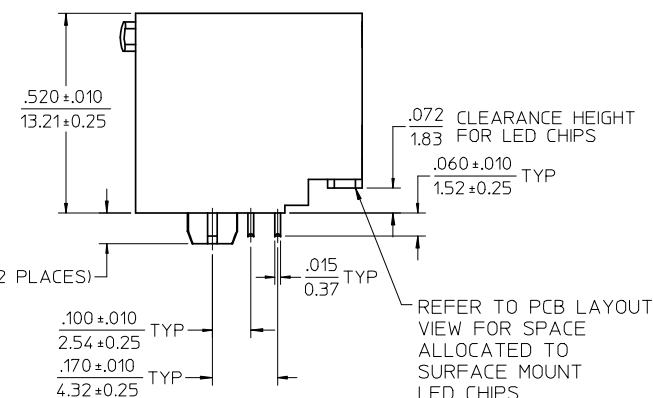
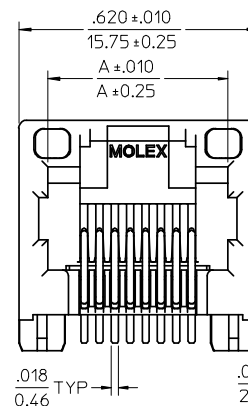


MATERIAL NUMBER	CONNECTOR SIZE	DIM. "A"	CIRCUITS	PANEL GROUND TABS
44380-0004	8	.470/11.94	8	ALL
44380-0005	6	.389/9.88	6	ALL
44380-0006	6	.389/9.88	4	ALL
44380-0013	8	.470/11.94	8	SEE NOTE #7
44380-0014	6	.389/9.88	6	SEE NOTE #7
44380-0015	6	.389/9.88	4	SEE NOTE #7
44380-2004	8	.470/11.94	8	ALL

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE IN/MM	SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
▽=0	4 PLACES ± --- ± ---	mm INCH	DRAWN BY MAYO	DATE 1999/04/09	TITLE
▽=0	3 PLACES ± --- ± ---	mm INCH	CHECKED BY ROBERTS	DATE 1999/04/09	INVERTED MODULAR JACK ASSEMBLY (MINI-PCI COMPLIANT)
	2 PLACES ± --- ± ---	mm INCH	APPROVED BY ROBERTS	DATE 1999/04/09	MOLEX INCORPORATED
	1 PLACE ± --- ± ---	mm INCH	MATERIAL NO.	DOCUMENT NO.	SHEET NO.
	ANGULAR ±1/2°	mm INCH	SEE CHART	SD-44380-001	2 OF 5
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	mm INCH	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

NOTES

- 1) MATERIAL:
HOUSING:
GLASS FILLED NYLON, 94V-0, COLOR: BLACK
TERMINALS:
PHOSPHOR BRONZE, .015/(0.38) THK
LIGHTPIPE:
POLYCARBONATE- WAVE OR HAND SOLDER ONLY
(NOT DESIGNED FOR I/R REFLOW OR CONVECTION REFLOW
SOLDER PROCESSES)
POLYSULFONE - MAXIMUM REFLOW TEMPERATURE: 400°F (205°C)
- 2) PLATING:
TERMINAL:
SELECT GOLD IN CONTACT AREA: 50 MICROINCHES (1.27 MICROMETERS) MIN.,
*SELECT TIN IN PC TAIL AREA: 100 MICROINCHES (2.54 MICROMETERS) MIN.,
WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES (1.27 MICROMETERS) MIN.,
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2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN
PRODUCT WITH TIN-LEAD IN THE PC TAIL AND/OR SHIELD.
- 3) PRODUCT SPECIFICATION:
CONNECTOR PERFORMANCE SPECIFICATIONS PER MOLEX
PRODUCT SPECIFICATION PS-43860-003
- 4) PACKAGING:
PER PACKAGING SPECIFICATION PK-43860-004
- 5) APPLICATION SPECIFICATION: AS-43860-001.
- 6) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.
- 7) CONFORMS TO F.C.C. REGULATION PART 68.5 FOR MODULAR JACKS.
- 8) REFER TO PAGE (5) OF (5) FOR RECOMMENDED PCB LAYOUT.
- 9) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC
SPECIFICATION PS-45499-002.



MATERIAL NUMBER	LIGHTPIPE MATERIAL	CONNECTOR SIZE	DIM. "A"	CIRCUITS
44380-0007	POLYCARBONATE	8	.470/11.94	8
44380-0008	POLYCARBONATE	6	.389/9.88	6
44380-0009	POLYCARBONATE	6	.389/9.88	4
44380-0020	POLYSULFONE	8	.470/11.94	8
44380-0021	POLYSULFONE	6	.389/9.88	6
44380-0022	POLYSULFONE	6	.389/9.88	4

SEE SHEET 1
EC NO: UCP2008-0965
DRWN:JBELL 2007/11/08
CHKD:LSCHMIDT 2007/12/04
APPR:FSMITH 2007/12/05

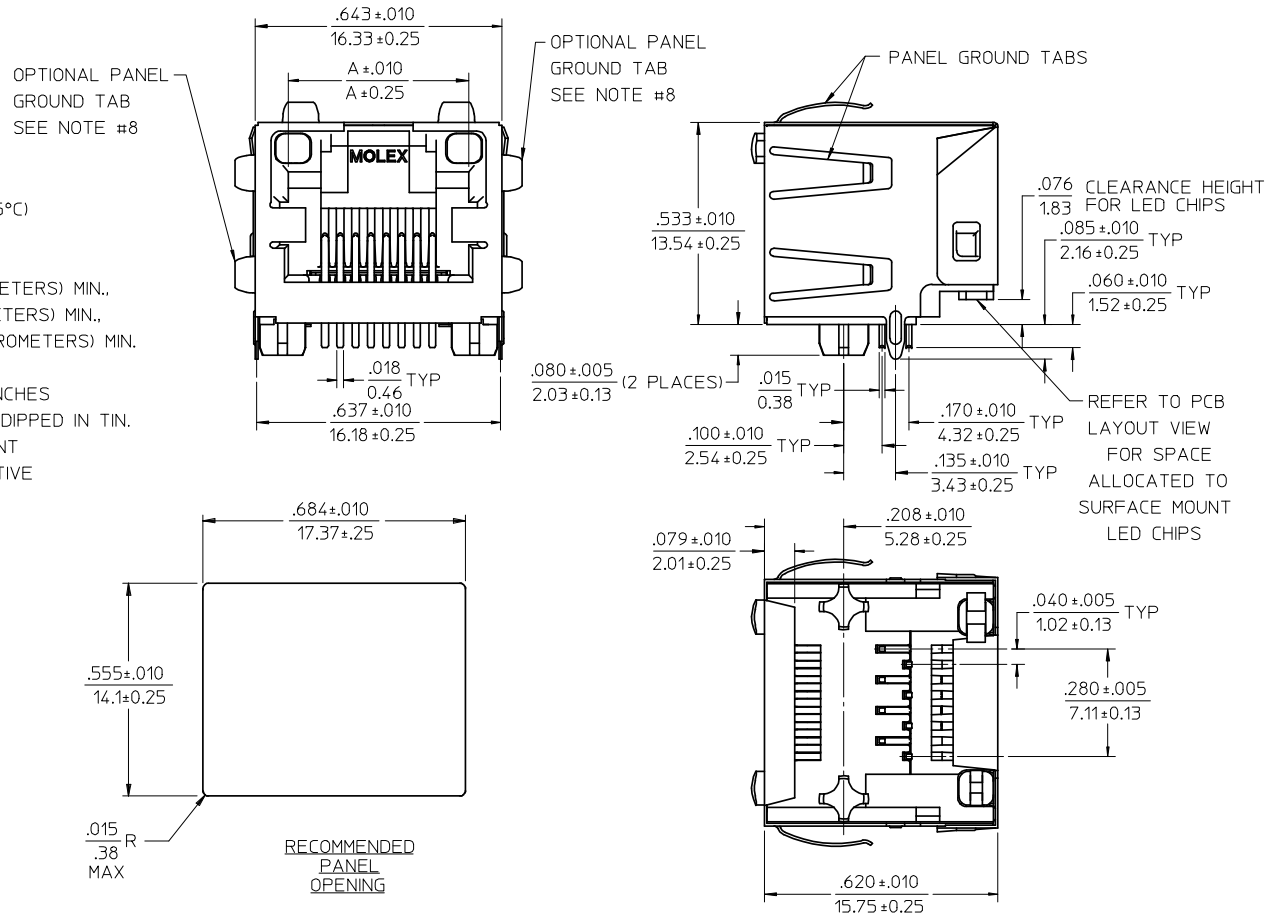
QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± --- ± ---
1 PLACE ± --- ± ---
ANGULAR ±1/2°
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM
DRAWN BY DATE
MAYO 1999/04/09
CHECKED BY DATE
ROBERTS 1999/04/09
APPROVED BY DATE
ROBERTS 1999/04/09
MATERIAL NO.
SEE CHART
SIZE C

SCALE
4:1
DESIGN UNITS
INCH
THIRD ANGLE PROJECTION
INVERTED MODULAR JACK ASSEMBLY (MINI-PCI COMPLIANT)
MOLEX INCORPORATED
DOCUMENT NO. SD-44380-001
SHEET NO. 3 OF 5
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

- NOTES
- 1) MATERIAL:
- HOUSING:
- GLASS FILLED NYLON, 94V-0, COLOR: BLACK
- TERMINALS:
- PHOSPHOR BRONZE, .015/(0.38) THK
- SHIELD:
- BRASS
- LIGHTPIPE:
- POLYCARBONATE - WAVE OR HAND SOLDER ONLY
(NOT DESIGNED FOR I/R REFLOW OR CONVECTION REFLOW
SOLDER PROCESSES)
- POLYSULFONE - MAXIMUM REFLOW TEMPERATURE: 400°F (205°C)
- 2) PLATING:
- TERMINAL:
- SELECT GOLD IN CONTACT AREA: 50 MICROINCHES (1.27 MICROMETERS) MIN.,
*SELECT TIN IN PC TAIL AREA: 100 MICROINCHES (2.54 MICROMETERS) MIN.,
WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES (1.27 MICROMETERS) MIN.
- SHIELD:
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(1.27 MICROMETERS) COPPER UNDERPLATE, PCB GROUND TABS DIPPED IN TIN.
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TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE
2002/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN
PRODUCT WITH TIN-LEAD IN THE PC TAIL AND/OR SHIELD.
- 3) PRODUCT SPECIFICATION:
- CONNECTOR PERFORMANCE SPECIFICATIONS PER MOLEX
PRODUCT SPECIFICATION PS-43860-003.
- 4) PACKAGING:
- CONNECTOR ASSEMBLIES IN THERMOFORMED TRAYS
PER PACKAGING SPECIFICATION PK-44380-005 .
- 5) APPLICATION SPECIFICATION: AS-43860-001.
- 6) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR
REFERENCE ONLY.
- 7) CONFORMS TO F.C.C. REGULATION PART 68.5
FOR MODULAR JACKS.
- 8) AVAILABLE WITH THE (2) SPECIFIED PANEL GROUND TABS
OMITTED FOR SIDE TO SIDE STACKABILITY, PER THE
ASSEMBLY MATERIAL NUMBER TABLE.
- 9) REFER TO SHEET (5) OF (5) FOR RECOMMENDED PCB LAYOUT.
- 10) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC
SPECIFICATION PS-45499-002.



MATERIAL NUMBER	LIGHTPIPE MATERIAL	CONN SIZE	DIM. "A"	CIRCUITS	PANEL GROUND TABS
44380-0010	POLYCARBONATE	8	.470/11.94	8	ALL
44380-0011	POLYCARBONATE	6	.389/9.88	6	ALL
44380-0012	POLYCARBONATE	6	.389/9.88	4	ALL
44380-0016	POLYCARBONATE	8	.470/11.94	8	SEE NOTE #8
44380-0017	POLYCARBONATE	6	.389/9.88	6	SEE NOTE #8
44380-0018	POLYCARBONATE	6	.389/9.88	4	SEE NOTE #8
44380-1010	POLYSULFONE	8	.470/11.94	8	ALL
44380-1011	POLYSULFONE	6	.389/9.88	6	ALL
44380-1012	POLYSULFONE	6	.389/9.88	4	ALL
44380-1016	POLYSULFONE	8	.470/11.94	8	SEE NOTE #8
44380-1017	POLYSULFONE	6	.389/9.88	6	SEE NOTE #8
44380-1018	POLYSULFONE	6	.389/9.88	4	SEE NOTE #8

SEE SHEET 1
EC NO: WCP2008-0965
DRWN:JBELL 2007/11/08
CHKD:LSCHMIDT 2007/12/04
APPR:FSM1TH 2007/12/05

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES ±	---	---
3 PLACES ±	---	---
2 PLACES ±	---	---
1 PLACE ±	---	---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY
MAYO

CHECKED BY
ROBERTS

APPROVED BY
ROBERTS

MATERIAL NO.

SIZE

DATE
1999/04/09

DATE
1999/04/09

DATE
1999/04/09

DOCUMENT NO.

SD-44380-001

SCALE
4:1

DESIGN UNITS
INCH

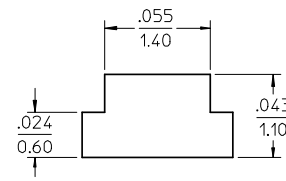
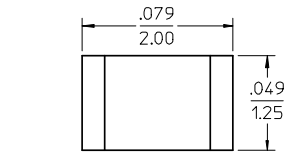
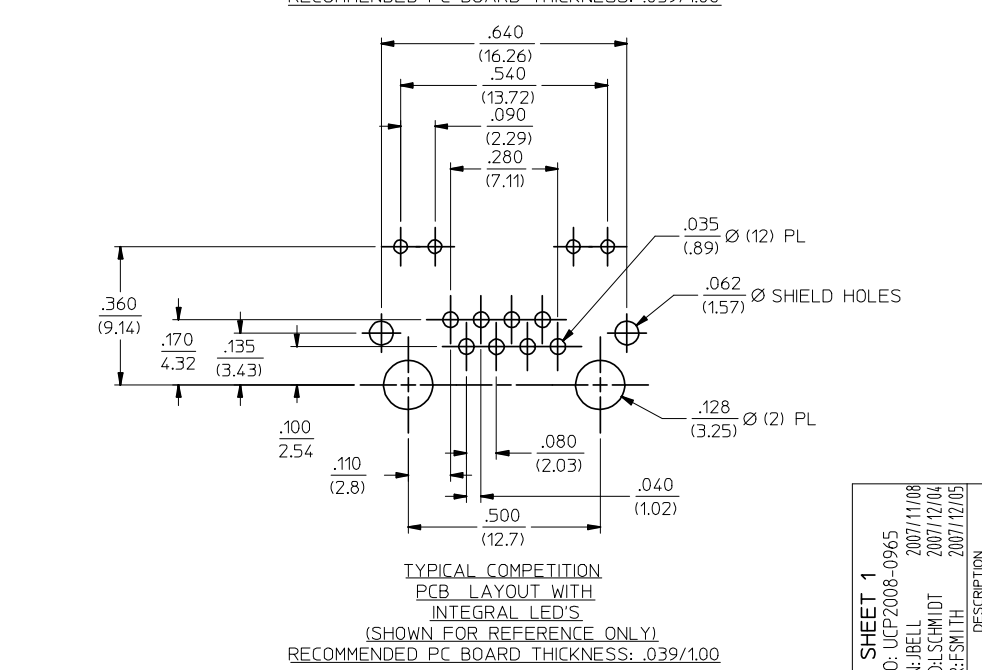
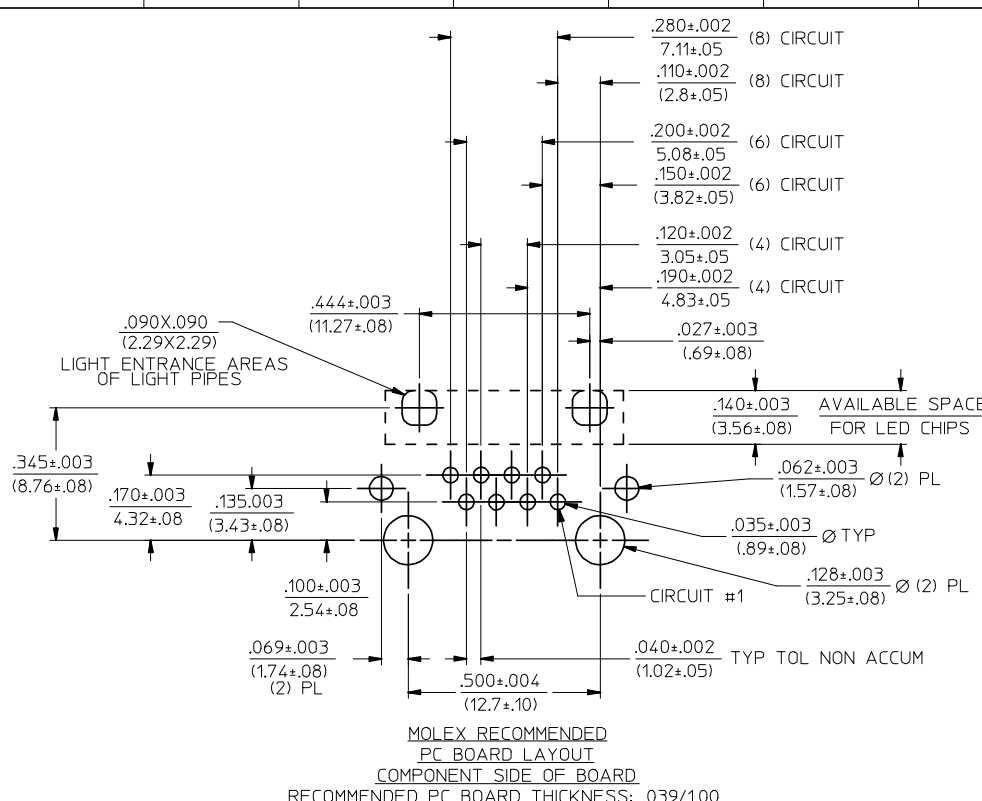
THIRD ANGLE PROJECTION

INVERTED MODULAR JACK ASSEMBLY (MINI-PCI COMPLIANT)

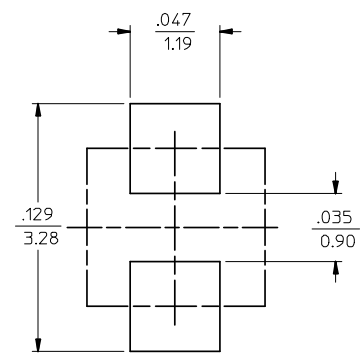
MOLEX INCORPORATED

SHEET NO.
4 OF 5

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RECOMMENDED SMT
LED DIMENSIONS
SCALE 20:1
(SEE NOTE 1)



RECOMMENDED SMT
LED SOLDER PATTERN
SCALE 20:1
(SEE NOTE 1)

NOTES:
1. FOR CROSS REFERENCE OF RECOMMENDED LEDS SEE MOLEX WEB SITE.

SEE SHEET 1 EC NO: UCP2008-0965 DRWN:JBELL 2007/11/08 CHKD:LSCHMIDT 2007/12/04 APPR:FSMITH 2007/12/05	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			IN/MM		4:1	INCH		
			mm	INCH	TITLE		INVERTED MODULAR JACK ASSEMBLY (MINI-PCI COMPLIANT)	
			4 PLACES ± --- ± ---	MAYO 1999/04/09				
			3 PLACES ± --- ± ---	CHECKED BY DATE	MOLEX MOLEX INCORPORATED			
			2 PLACES ± --- ± ---	ROBERTS 1999/04/09				
			1 PLACE ± --- ± ---	APPROVED BY DATE				
ANGULAR ±1/2°		ROBERTS 1999/04/09	DOCUMENT NO.		SHEET NO.			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-44380-001		5 OF 5		
REV			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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