

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0443800004](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Right Angle, Low Profile, Inverted, 8/8, Shielded, with All Panel Grounding Tabs

Documents:

3D Model	Application Specification (PDF)
Packaging Specification (PDF)	Product Specification PS-43860-003 (PDF)
Drawing (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 Name	RJ45

Physical

Boot Color	N/A
Color - Resin	Black
Durability (mating cycles max)	500
Inverted / Top Latch	Yes
Keying to Mating Part	None
Lightpipes/LEDs	None
Material - Metal	Brass, Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
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

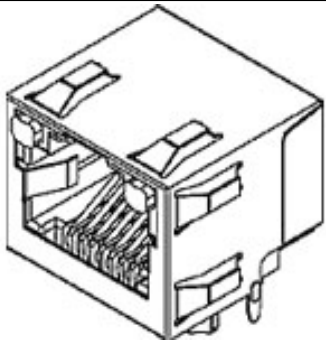


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
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 Tab
Shielded	Yes
Voltage - Maximum	150V AC (RMS)
Solder Process Data	
Lead-free Process Capability	Wave Capable (TH only)
Material Info	
Reference - Drawing Numbers	
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

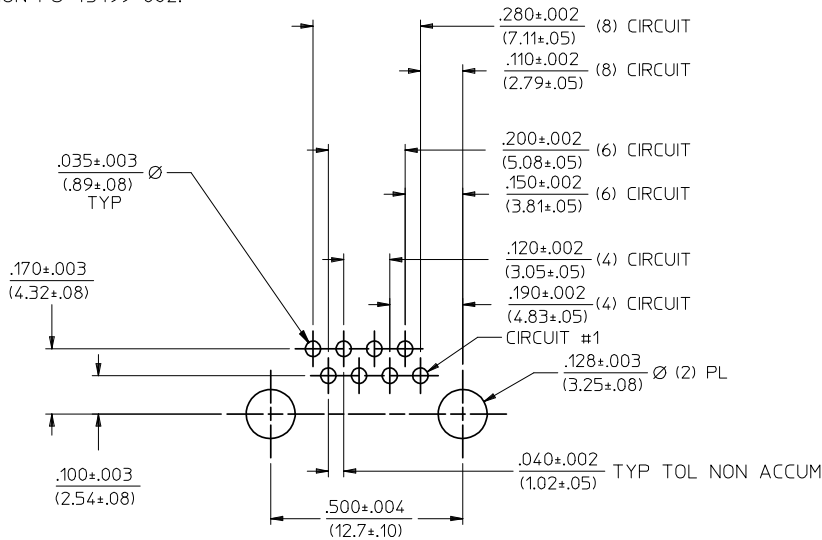
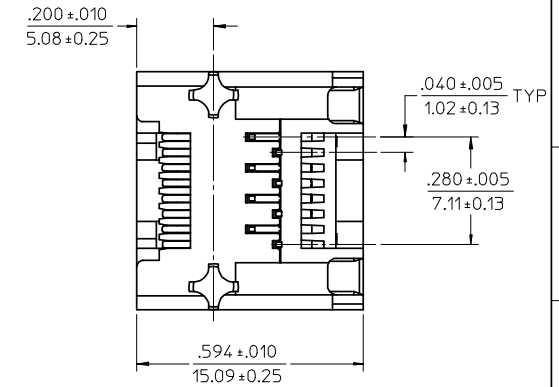
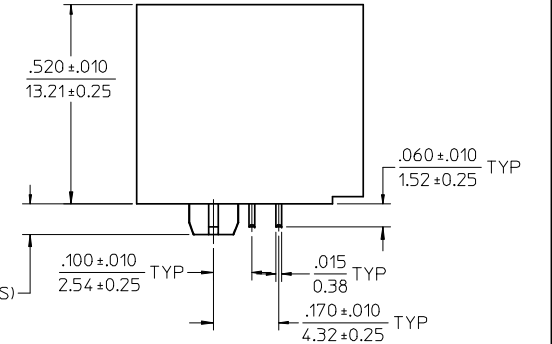
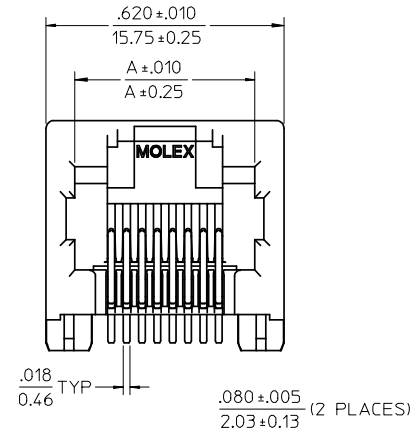
4) PACKAGING OPTIONS:

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

RECREATED IN 3D
EC NO: UCP2008-0965
DRAWN:JBELL 2007/11/08
CHKD:LSCHMIDT 2007/12/04
APPR:FSMITH 2007/12/05

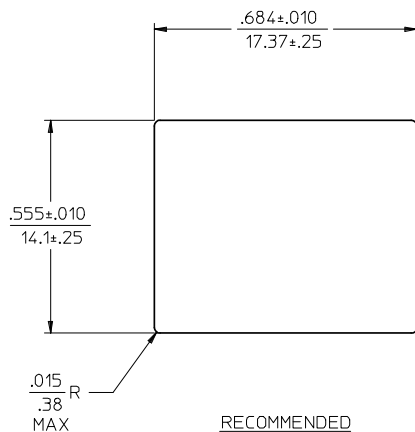
QUALITY SYMBOLS
▽=0
▽=0

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

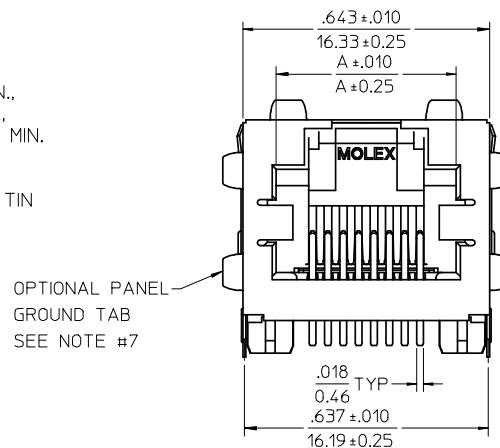
DIMENSION STYLE IN/MM
DRAWN BY DATE
MAYO 1999/04/09
CHECKED BY DATE
ROBERTS 1999/04/09
APPROVED BY DATE
ROBERTS 1999/04/09
MATERIAL NO.
SEE CHART
SIZE

SCALE 4:1
DESIGN UNITS INCH
THIRD ANGLE PROJECTION
TITLE
INVERTED MODULAR JACK ASSEMBLY (MINI-PCI COMPLIANT)
MOLEX INCORPORATED
DOCUMENT NO. SD-44380-001
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.

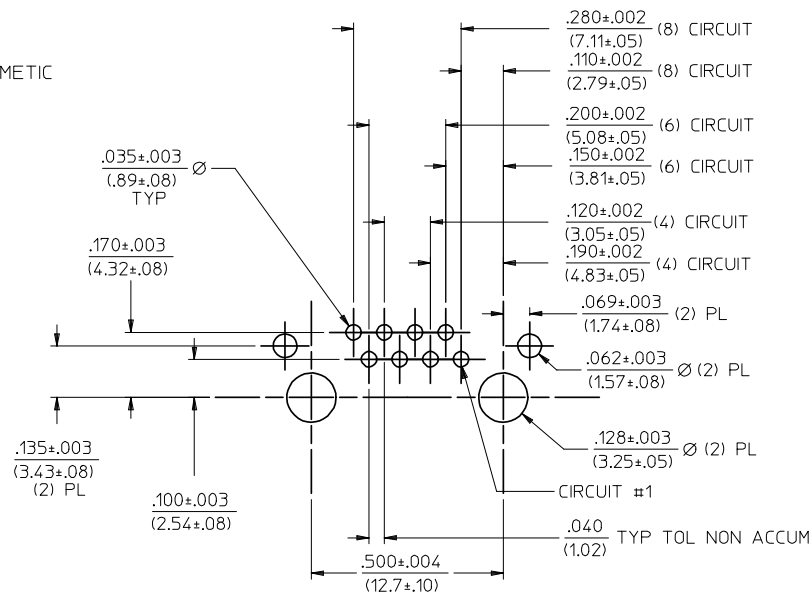
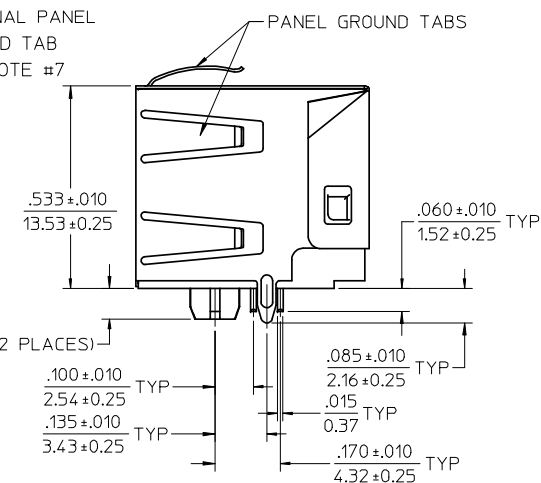


RECOMMENDED
PANEL
OPENING

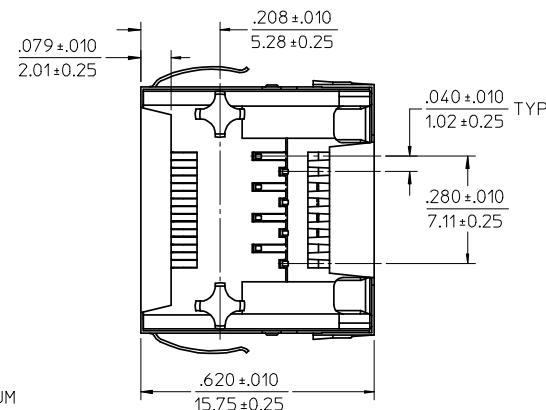


OPTIONAL PANEL
GROUND TAB
SEE NOTE #7

OPTIONAL PANEL
GROUND TAB
SEE NOTE #7



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

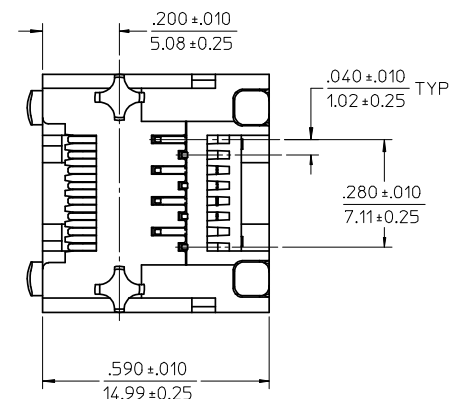
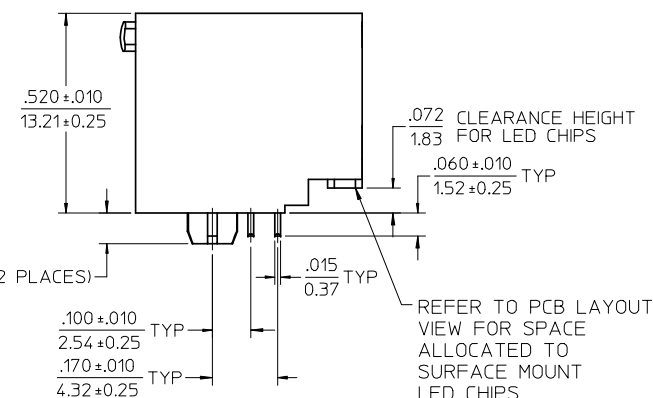
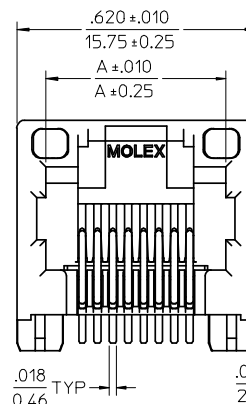


MATERIAL NUMBER	CONNECTOR SIZE	DIM. "A"	CIRCUITS	PANEL GROUND TABS
44380-0004	8	.470/11.94	8	ALL
44380-0005	6	.389/9.88	6	ALL
44380-0006	6	.389/9.88	4	ALL
44380-0013	8	.470/11.94	8	SEE NOTE #7
44380-0014	6	.389/9.88	6	SEE NOTE #7
44380-0015	6	.389/9.88	4	SEE NOTE #7
44380-2004	8	.470/11.94	8	ALL

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.,
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- 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	2007/11/08	DRWN:JBELL
		2007/12/04	CHKD:LSCHMIDT
		2007/12/05	APPR:FSMITH
REV	DESCRIPTION		

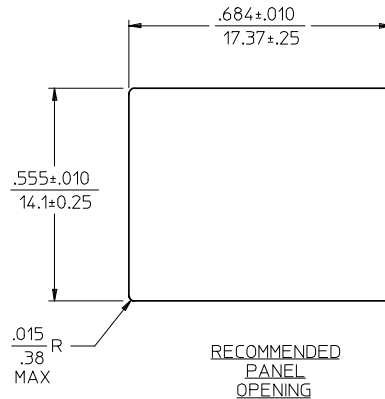
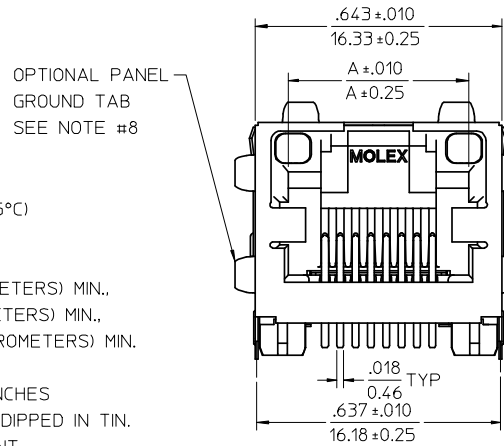
QUALITY SYMBOLS
▽=0
▽=0

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

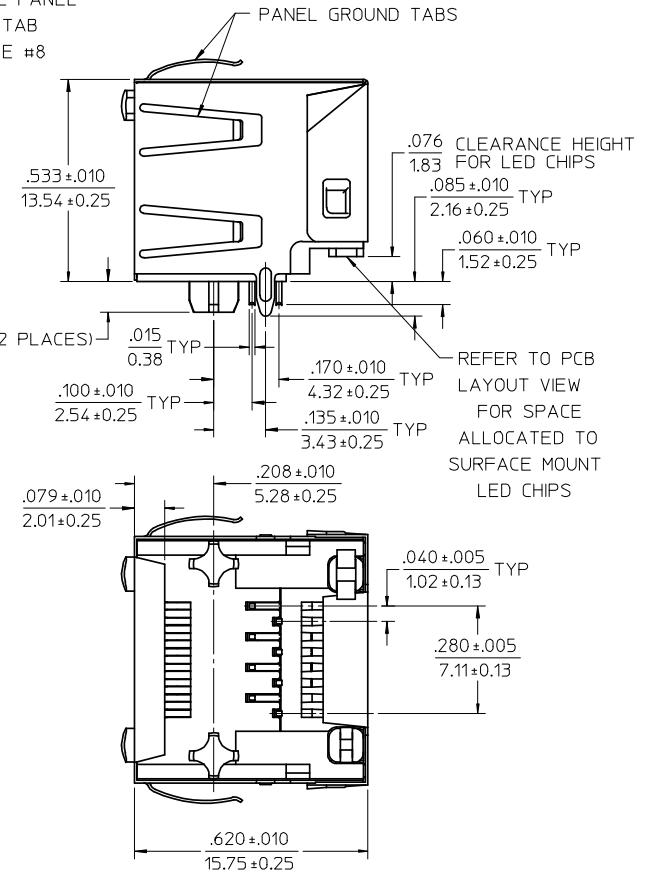
DIMENSION STYLE IN/MM
DRAWN BY MAYO 1999/04/09
CHECKED BY ROBERTS 1999/04/09
APPROVED BY ROBERTS 1999/04/09
MATERIAL NO.
SIZE

SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
TITLE	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.,
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- SHIELD:
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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.



OPTIONAL PANEL
GROUND TAB
SEE NOTE #8



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:FSM/TH 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

SCALE
4:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

INVERTED MODULAR
JACK ASSEMBLY
(MINI-PCI COMPLIANT)

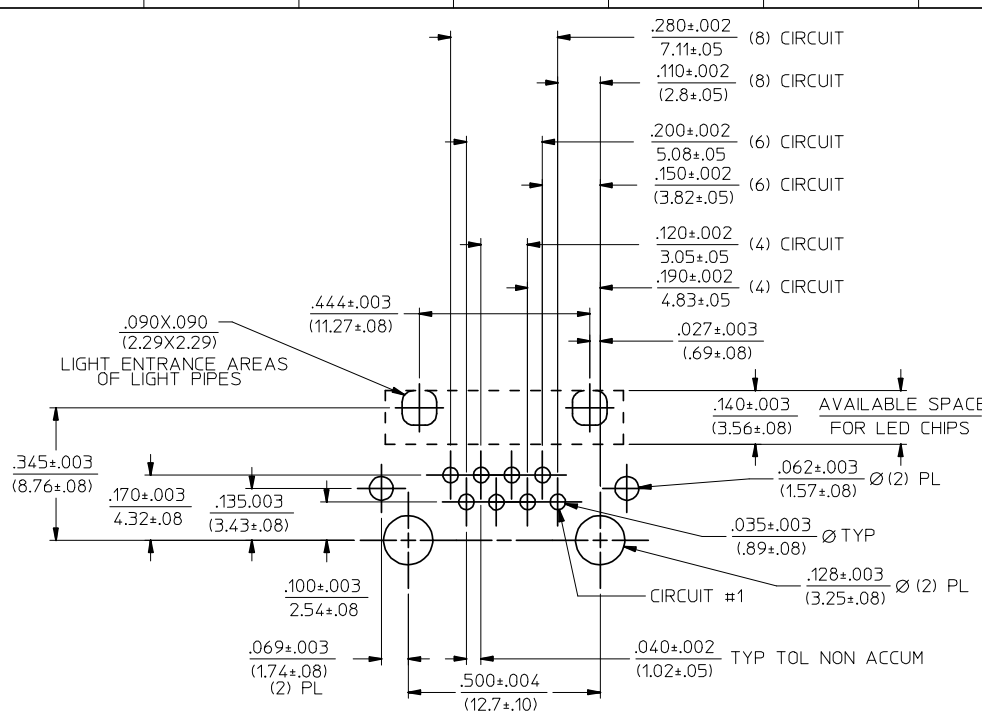
MOLEX INCORPORATED

DOCUMENT NO.
SD-44380-001

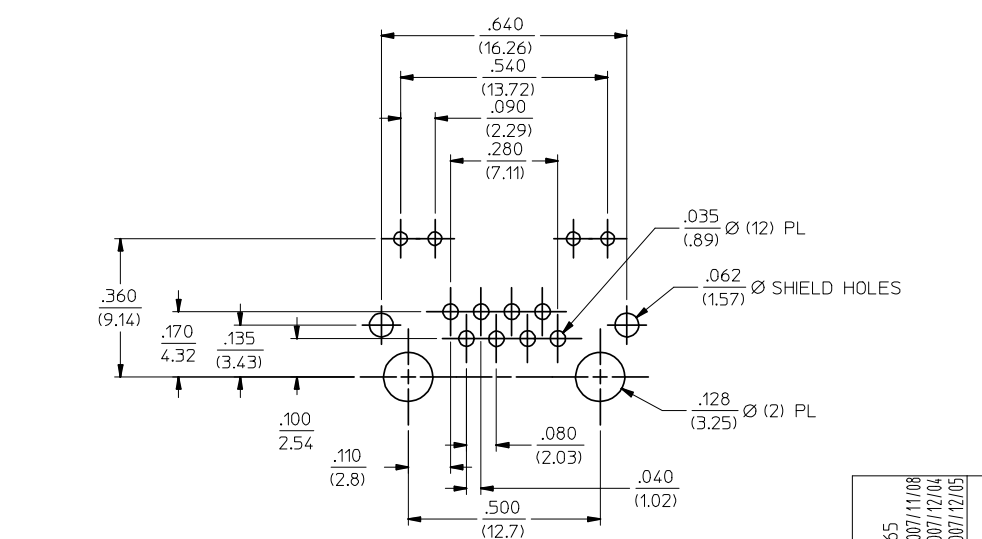
SHEET NO.
4 OF 5

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

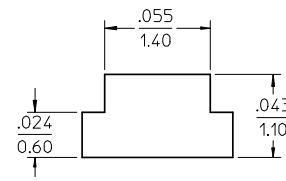
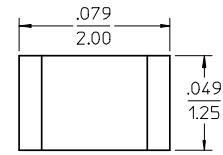
13 12 11 10 9 8 7 6 5 4 3 2 1



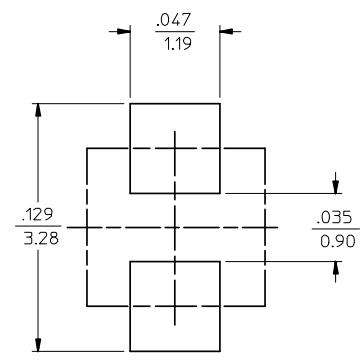
MOLEX RECOMMENDED
PC BOARD LAYOUT
COMPONENT SIDE OF BOARD
RECOMMENDED PC BOARD THICKNESS: .039/1.00



TYPICAL COMPETITION
PCB LAYOUT WITH
INTEGRAL LED'S
(SHOWN FOR REFERENCE ONLY)
RECOMMENDED PC BOARD THICKNESS: .039/1.00



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				
					DRAWN BY		DATE		TITLE INVERTED MODULAR JACK ASSEMBLY (MINI-PCI COMPLIANT)	
			4 PLACES	± ---	± ---	MAYO	1999/04/09			
			3 PLACES	± ---	± ---	CHECKED BY	DATE			
			2 PLACES	± ---	± ---	ROBERTS	1999/04/09			
			1 PLACE	± ---	± ---	APPROVED BY	DATE	MOLEX INCORPORATED		
			ANGULAR ±1/2°		ROBERTS	1999/04/09				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.			SHEET NO.
					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 «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.