

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0441500003

Status:

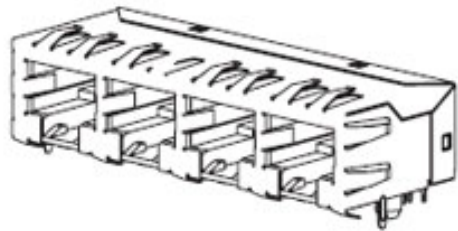
Active

Overview:

modular_plugs_jacks

Description:

Modular Jack, Right Angle, Low Profile, 8/8, 6 Ports



Series

image - Reference only

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-44050-003 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA	LR19980
UL	E107635

General

Product Family	Modular Jacks/Plugs
Series	44150
Comments	External Shield
Component Type	PCB Jack
Magnetic	No
Overview	modular_plugs_jacks
Performance Category	5e
Power over Ethernet (PoE)	N/A
Product Name	RJ45

Physical

Color - Resin	Black
Durability (mating cycles max)	500
Flammability	94V-0
Inverted / Top Latch	No
Lightpipes/LEDs	None
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Orientation	Right Angle (Side Entry)
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Plating min: Mating (µin)	50
Plating min: Mating (µm)	1.25
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Ports	6
Positions / Loaded Contacts	8/8
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +80°C
Termination Interface: Style	Through Hole
Wire/Cable Type	N/A

Electrical

Current - Maximum per Contact	1.5A
Shielded	No
Voltage - Maximum	125V

Solder Process Data

Lead-free Process Capability	Wave Capable (TH only)
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EU RoHS

ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status

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
44150Series

Mates With
FCC 68 Plugs

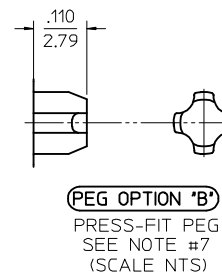
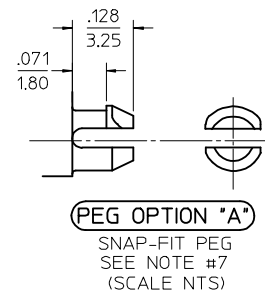
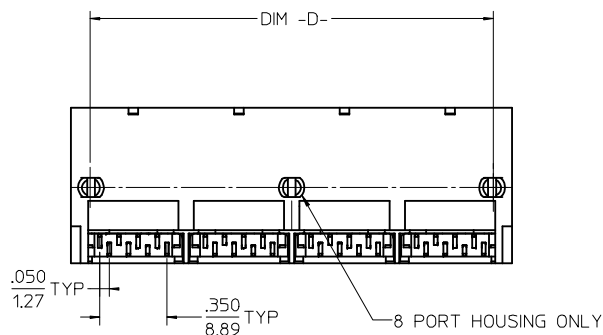
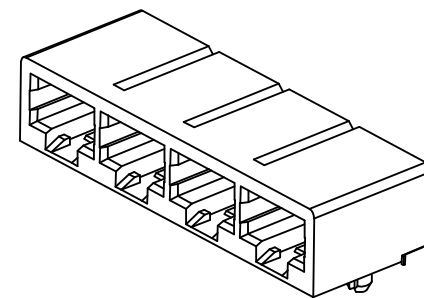
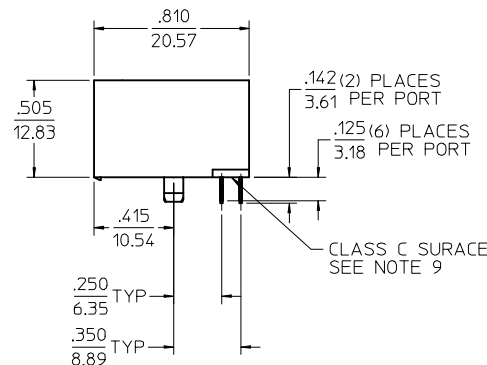
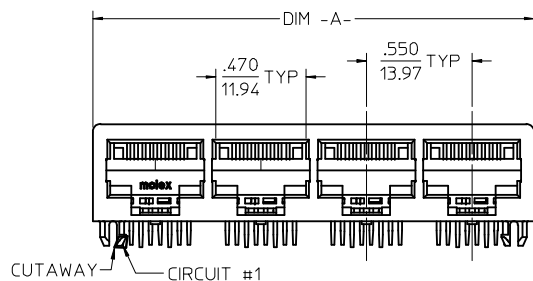
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-44150-005
Product Specification	PS-44050-003
Sales Drawing	SD-44150-002
Test Summary	TS-44050-001

This document was generated on 06/07/2010

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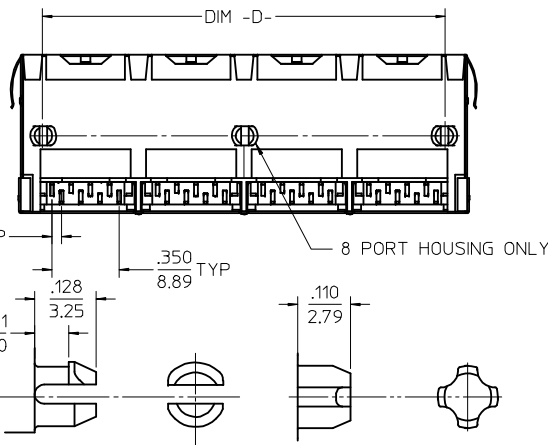
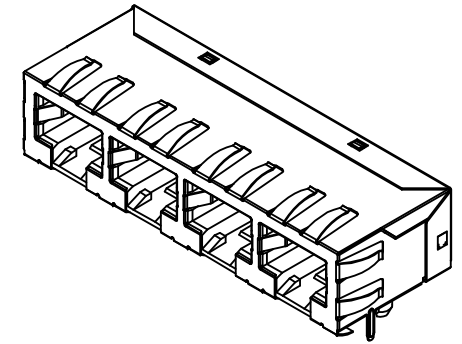
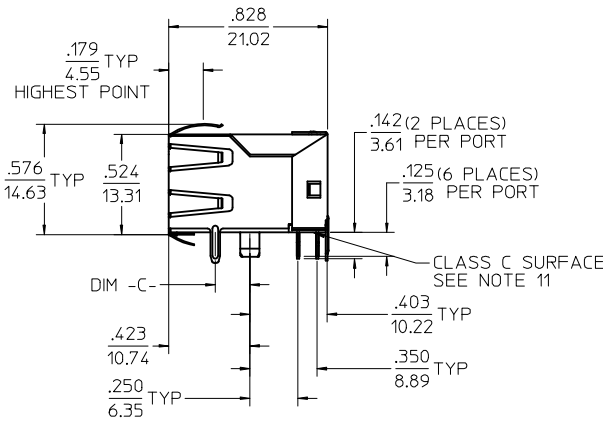
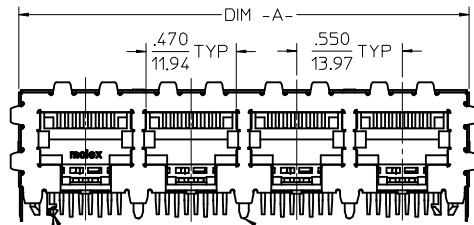


NOTES:

- 1) MATERIAL:
HOUSING: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK
TERMINALS: PHOSPHOR BRONZE
- 2) FINISH:
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 TAILS.
- 3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-44050-003.
- 4) PACKAGING SPECIFICATION:
UNSHIELDED CONNECTOR ASSEMBLIES IN THERMOFORMED TRAYS PER MOLEX
PACKAGING SPECIFICATION PK-44150-005.
- 5) MATES WITH: MODULAR PLUGS THAT CONFORM TO FCC REGULATION PART 68.5.
- 6) PC BOARD LAYOUTS AND PANEL CUT-OUT SHOWN ON PAGE (3) OF (3).
- 7) CONNECTOR AVAILABLE WITH EITHER PEG OPTION "A" (SNAP-FIT) OR
PEG OPTION "B" (PRESS-FIT). THIS DRAWING SHOWS PEG OPTION "A".
- 8) TERMINAL LENGTHS MAY BE DIFFERENT FROM TERMINAL TO TERMINAL.
- 9) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC
SPECIFICATION PS-45499-002 WITH THE EXCEPTION OF THE SURFACE
INDICATED WHICH IS A CLASS C SURFACE.

ASSEMBLY MATERIAL NUMBER	NUMBER OF PORTS	PEG OPTION	CENTER PEG	DIM -A-	DIM -D-
441500001	2	A	NO	1.200/30.48	1.000/25.40
441500017	2	B	NO	1.200/30.48	1.000/25.40
441500002	4	A	NO	2.300/58.42	2.100/53.34
441500018	4	B	NO	2.300/58.42	2.100/53.34
441500003	6	A	NO	3.400/86.36	3.200/81.28
441500019	6	B	NO	3.400/86.36	3.200/81.28
441500004	8	A	YES	4.500/114.30	4.300/109.22
441500020	8	B	YES	4.500/114.30	4.300/109.22

ADD NOTE 9 EC NO: UCP2009-0477 DRWN:JBELL 2008/09/05 CHKD:JBELL 2008/09/11 APPR:FSM TH 2008/09/11 D1	DESCRIPTION ▽=0 ▽=0 REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION															
		<table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± .010</td><td>± .004</td></tr><tr><td>3 PLACES</td><td>± .010</td><td>± .004</td></tr><tr><td>2 PLACES</td><td>± .025</td><td>± .010</td></tr><tr><td>1 PLACE</td><td>± .050</td><td>± .020</td></tr></table>			mm	INCH	4 PLACES	± .010	± .004	3 PLACES	± .010	± .004	2 PLACES	± .025	± .010	1 PLACE	± .050	± .020	DRAWN BY DATE MARANTO 98/01/21		TITLE CATEGORY 5E MODULAR JACK ASSEMBLIES, GANGED			
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		CHECKED BY DATE ROBERTS 98/01/21																						
		APPROVED BY DATE ROBERTS 98/01/21		MOLEX INCORPORATED																				
		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-44150-002		SHEET NO. 1 OF 3																		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS SIZE C THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						



PEG OPTION "A"

SNAP-FIT PEG
SEE NOTE #8
(SCALE NTS)

PEG OPTION "B"

PRESS-FIT PEG
SEE NOTE #8
(SCALE NTS)

NOTES:

1) MATERIAL:

HOUSING: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK
TERMINALS: PHOSPHOR BRONZE
SHIELD: BRASS

2) FINISH:

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 TAILS AND/OR SHIELD.

3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-44050-003.

4) PACKAGING SPECIFICATION:

SHIELDED CONNECTOR ASSEMBLIES IN THERMOFORMED TRAYS PER MOLEX
PACKAGING SPECIFICATION PK-44150-004.

5) MATES WITH: MODULAR PLUGS THAT CONFORM TO FCC REGULATION PART 68.5.

6) PC BOARD LAYOUTS AND PANEL CUT-OUT SHOWN ON PAGE (3) OF (3).

7) CONNECTOR AVAILABLE WITH EITHER PEG OPTION "A" (SNAP-FIT) OR PEG OPTION "B" (PRESS-FIT). THIS DRAWING SHOWS PEG OPTION "A".

8) (4) PORT AND (8) PORT MODJACKS AVAILABLE WITH A SINGLE GROUND TAB ON REAR OF SHIELD, LOCATED IN THE CENTER. PER THE ASSEMBLY MATERIAL NUMBER TABLE.

9) (8) PORT VERSION AVAILABLE WITH (3) GROUND TABS ON REAR OF SHIELD, CENTERED ON THE PART, PER THE ASSEMBLY MATERIAL NUMBER TABLE.

10) TERMINAL LENGTHS MAY BE DIFFERENT FROM TERMINAL TO TERMINAL.

11) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002 WITH THE EXCEPTION OF THE SURFACE INDICATED WHICH IS A CLASS C SURFACE.

ASSEMBLY MATERIAL NUMBER	NUMBER OF PORTS	PEG OPTION	CENTER PEG	REAR SHIELD GROUND TABS	DIM -A-	DIM -C-	DIM -D-
441500005	2	A	NO	1	1.225/31.12	0.145/3.68	1.000/25.40
441500011	2	A	NO	1	1.225/31.12	0.180/4.57	1.000/25.40
441500021	2	B	NO	1	1.225/31.12	0.145/3.68	1.000/25.40
441500027	2	B	NO	1	1.225/31.12	0.180/4.57	1.000/25.40
441500009	4	A	NO	1	2.325/59.05	0.145/3.68	2.100/53.34
441500015	4	A	NO	1	2.325/59.05	0.180/4.57	2.100/53.34
441500006	4	A	NO	3	2.325/59.05	0.145/3.68	2.100/53.34
441500012	4	A	NO	3	2.325/59.05	0.180/4.57	2.100/53.34
441500025	4	B	NO	1	2.325/59.05	0.145/3.68	2.100/53.34
441500031	4	B	NO	1	2.325/59.05	0.180/4.57	2.100/53.34
441500022	4	B	NO	3	2.325/59.05	0.145/3.68	2.100/53.34
441500028	4	B	NO	3	2.325/59.05	0.180/4.57	2.100/53.34
441500034	4	B	NO	3	2.325/59.05	N/A	2.100/53.34
441500007	6	A	NO	5	3.425/87.00	0.145/3.68	3.200/81.28
441500013	6	A	NO	5	3.425/87.00	0.180/4.57	3.200/81.28
441500023	6	B	NO	5	3.425/87.00	0.145/3.68	3.200/81.28
441500029	6	B	NO	5	3.425/87.00	0.180/4.57	3.200/81.28
441500010	8	A	YES	1	4.525/114.94	0.145/3.68	4.300/109.22
441500016	8	A	YES	1	4.525/114.94	0.180/4.57	4.300/109.22
441500033	8	A	YES	3	4.525/114.94	0.145/3.68	4.300/109.22
441500008	8	A	YES	7	4.525/114.94	0.145/3.68	4.300/109.22
441500014	8	A	YES	7	4.525/114.94	0.180/4.57	4.300/109.22
441500026	8	B	YES	1	4.525/114.94	0.145/3.68	4.300/109.22
441500032	8	B	YES	1	4.525/114.94	0.180/4.57	4.300/109.22
441500024	8	B	YES	7	4.525/114.94	0.145/3.68	4.300/109.22
441500030	8	B	YES	7	4.525/114.94	0.180/4.57	4.300/109.22

ADD NOTE 11
EC NO: UCP2009-0477
DRWN: BELL
CHKD: BELL
APPR: FSMITH
REV D1

QUALITY
SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES ±	---	---
3 PLACES ±	---	±.010
2 PLACES ±	±0.25	---
1 PLACE ±	---	---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY
MARANTO
DATE
98/01/21

CHECKED BY
ROBERTS
DATE
98/01/21

APPROVED BY
ROBERTS
DATE
98/01/21

MATERIAL NO.
SEE CHART

SIZE
C

SCALE
2:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

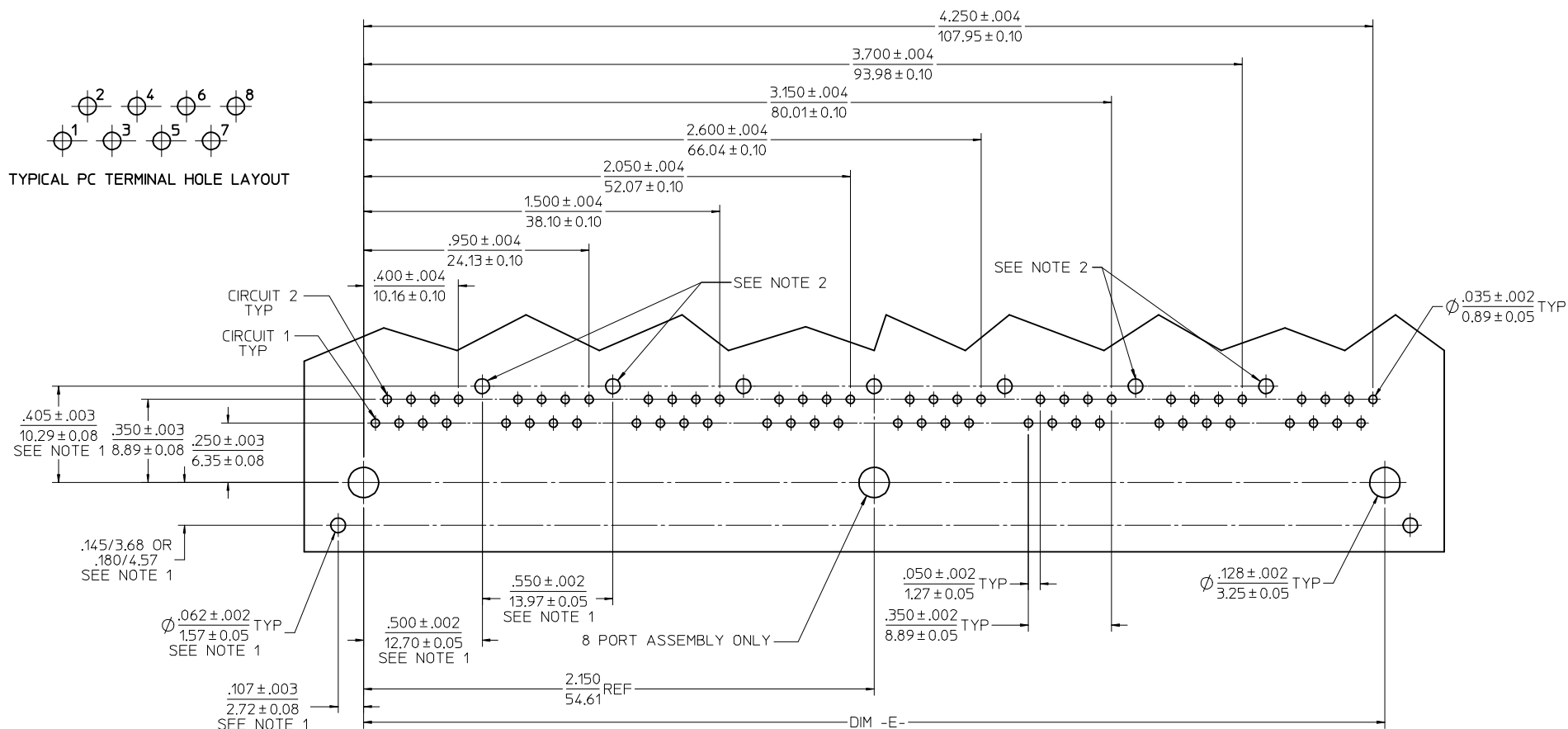
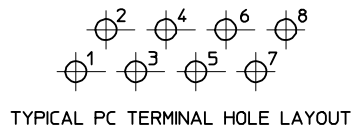
TITLE
CATEGORY 5E MODULAR JACK
ASSEMBLIES, GANGED

MOLEX INCORPORATED

DOCUMENT NO.
SD-44150-002

SHEET NO.
2 OF 3

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

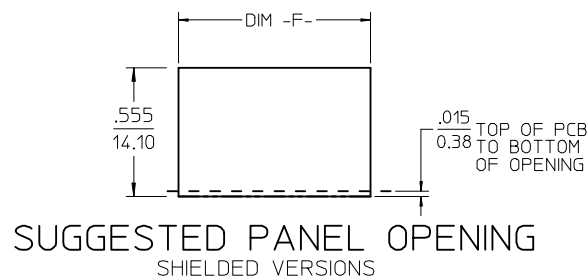


PCB LAYOUT : COMPONENT SIDE
RECOMMENDED PCB THICKNESS : .062/1.57

NOTES:

1. DIMENSIONS REFER TO SHIELDED ASSEMBLIES ONLY
2. SHIELD PCB GROUND TAB HOLES SPECIFIED NOT PRESENT FOR 441500033 USAGE

NUMBER OF PORTS	DIM -E-	DIM -F-
2	1.000/25.40	1.255/31.88
4	2.100/53.34	2.355/59.82
6	3.200/81.28	3.455/87.86
8	4.300/109.22	4.555/115.70



SEE SHEET 1 EC NO: UCP2009-0477 DRWN:JBELL 2008/09/05 CHKD:JBELL 2008/09/11 APPR:FSMITH 2008/09/11 REV: D1	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE	DESIGN UNITS INCH	THIRD ANGLE PROJECTION																										
		<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .005</td> <td>± .002</td> </tr> <tr> <td>3 PLACES</td> <td>± .010</td> <td>± .010</td> </tr> <tr> <td>2 PLACES</td> <td>± .025</td> <td>± .010</td> </tr> <tr> <td>1 PLACE</td> <td>± .050</td> <td>± .020</td> </tr> </table>			mm	INCH	4 PLACES	± .005	± .002	3 PLACES	± .010	± .010	2 PLACES	± .025	± .010	1 PLACE	± .050	± .020	<table border="1"> <tr> <td>DRAWN BY</td> <td>DATE</td> </tr> <tr> <td>MARANTO</td> <td>98/01/21</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> </tr> <tr> <td>ROBERTS</td> <td>98/01/21</td> </tr> <tr> <td>APPROVED BY</td> <td>DATE</td> </tr> <tr> <td>ROBERTS</td> <td>98/01/21</td> </tr> </table>		DRAWN BY	DATE	MARANTO	98/01/21	CHECKED BY	DATE	ROBERTS	98/01/21	APPROVED BY	DATE	ROBERTS	98/01/21	TITLE CATEGORY 5E MODULAR JACK ASSEMBLIES, GANGED	
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