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Part Number: [0441500005](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Right Angle, Low Profile, 8/8, 2 Ports

Documents:
[3D Model](#) [Product Specification PS-44050-003 \(PDF\)](#)
[Drawing \(PDF\)](#) [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

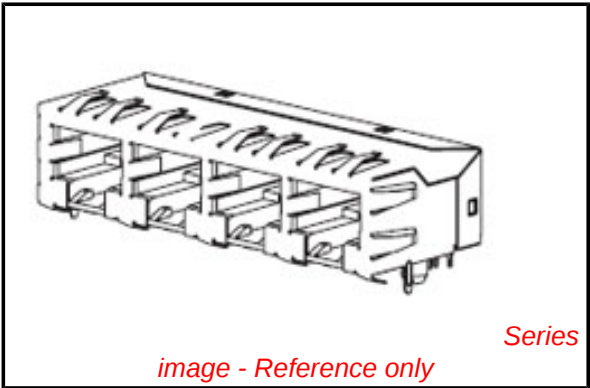
Color - Resin Black
Durability (mating cycles max) 500
Flammability 94V-0
Inverted / Top Latch No
Lightpipes/LEDs None
Material - Metal Brass, Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin Nylon
Orientation Right Angle (Side Entry)
PCB Retention Yes
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 2
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 Yes
Voltage - Maximum 125V

Solder Process Data

Duration at Max. Process Temperature (seconds) 5



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
[44150Series](#)

Mates With
FCC 68 Plugs

Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

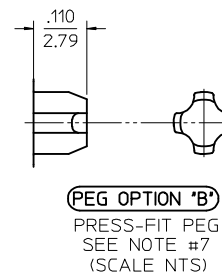
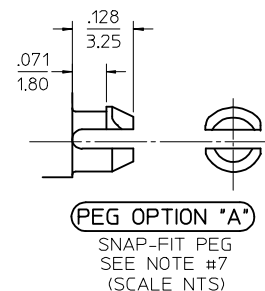
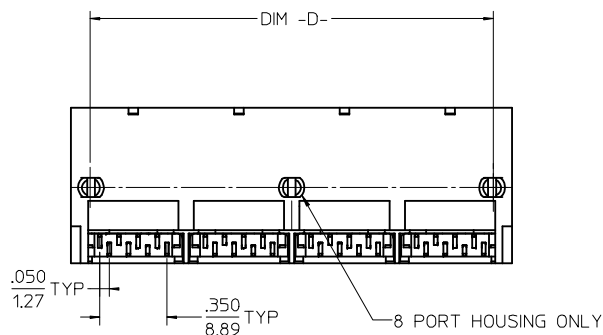
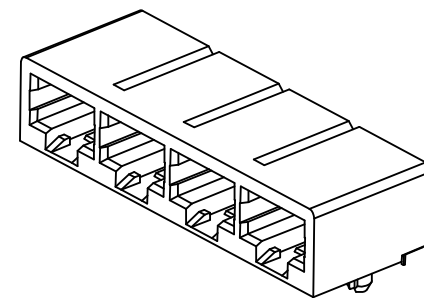
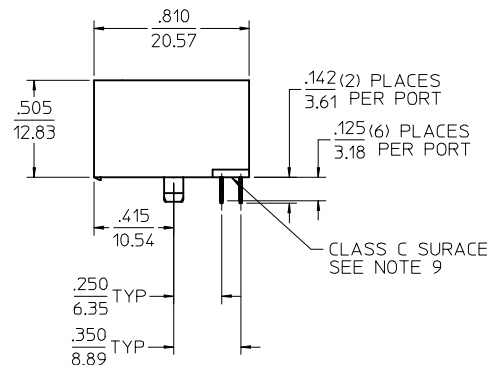
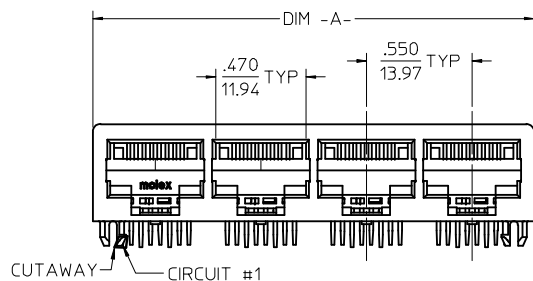
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-44150-004
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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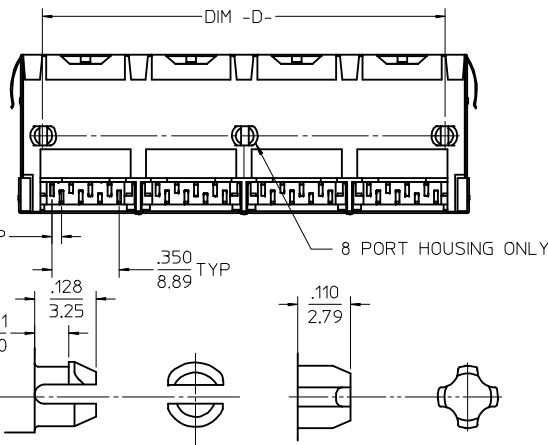
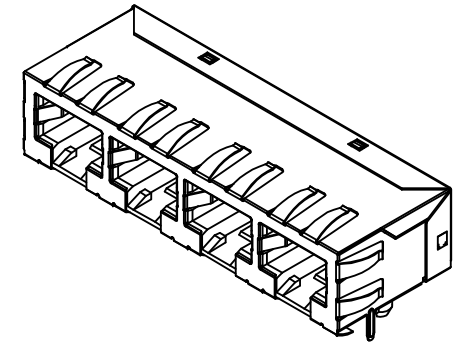
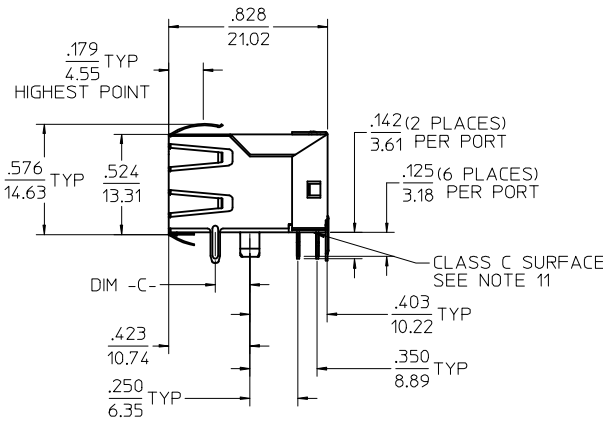
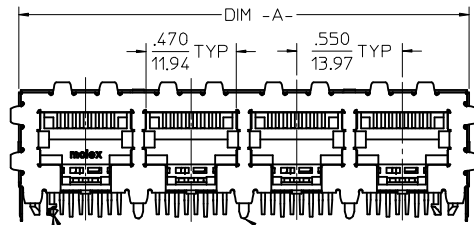


NOTES:

- 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	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
					IN/MM		2:1	INCH	
					DRAWN BY DATE		TITLE		
					CHECKED BY DATE		CATEGORY 5E MODULAR JACK ASSEMBLIES, GANGED		
					APPROVED BY DATE		MOLEX INCORPORATED		
		ROBERTS 98/01/21		ROBERTS 98/01/21		MOLEX			
		ANGULAR ±1/2°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-44150-002		1 OF 3	
				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

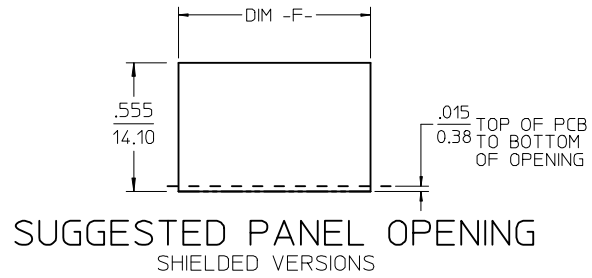
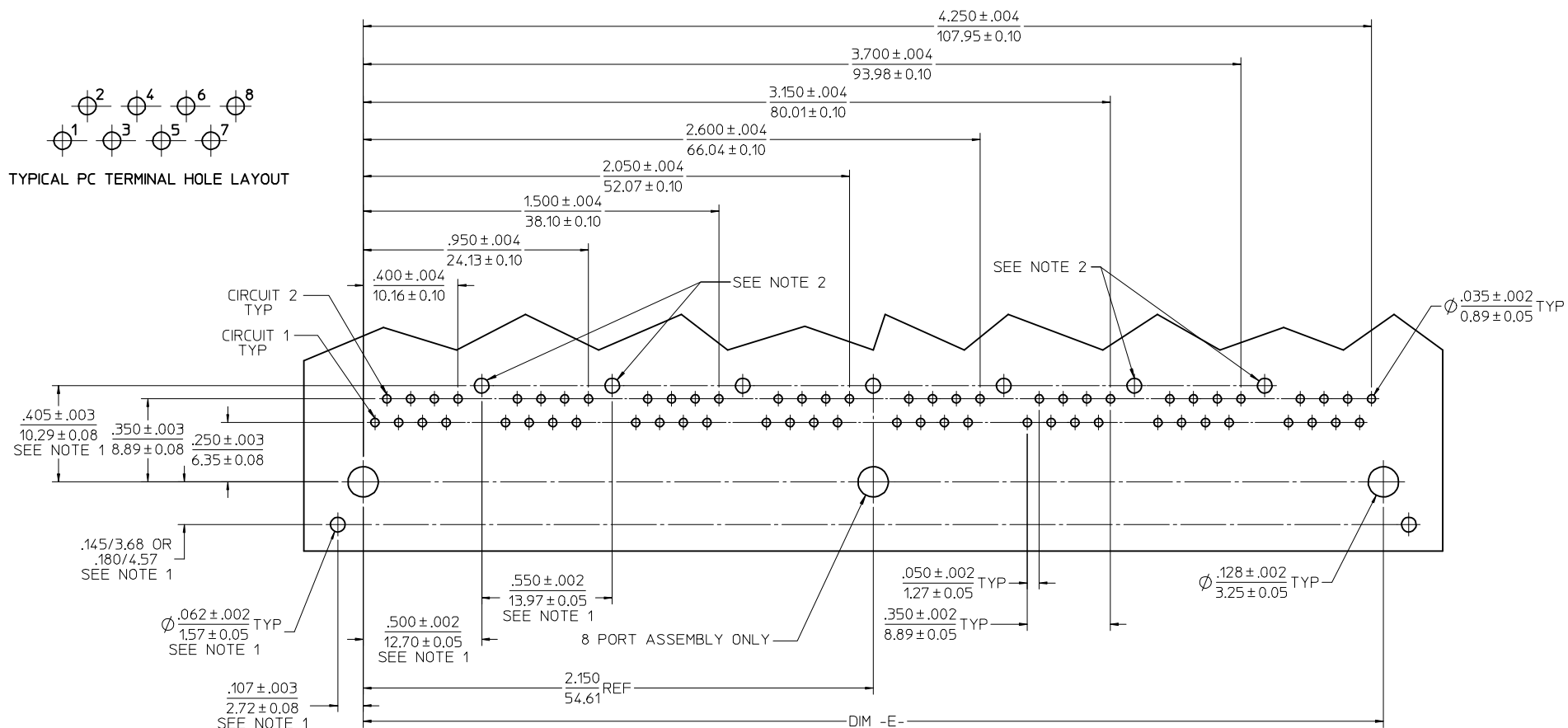
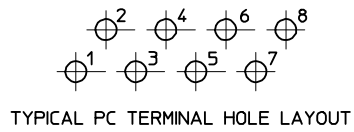
ADD NOTE 11
EC NO: UCP2009-0477
DRWN: BELL
CHKD: BELL
APPR: FSMITH
REV: D1

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± .010
2 PLACES ± .025 ± ---
1 PLACE ± --- ± ---
ANGULAR ± 1/2°
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM
DRAWN BY DATE
MARANTO 98/01/21
CHECKED BY DATE
ROBERTS 98/01/21
APPROVED BY DATE
ROBERTS 98/01/21
MATERIAL NO.
SEE CHART
SIZE C

SCALE
2:1
DESIGN UNITS
INCH
THIRD ANGLE PROJECTION
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



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 CATEGORY 5E MODULAR JACK ASSEMBLIES, GANGED MOLEX INCORPORATED DOCUMENT NO. SD-44150-002 SHEET NO. 3 OF 3
		mm INCH		DRAWN BY MARANTO	DATE 98/01/21	TITLE		
		4 PLACES ± --- ± ---		CHECKED BY ROBERTS	DATE 98/01/21	MOLEX		
		3 PLACES ± --- ± .010		APPROVED BY ROBERTS	DATE 98/01/21	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
		2 PLACES ± 0.25 ± ---						
1 PLACE ± --- ± ---		ANGULAR ± 1/2°		MATERIAL NO. N/A				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								