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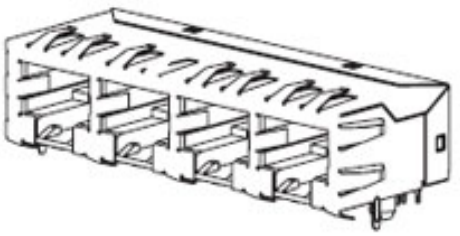
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# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0441500024
**Status:** Active
**Overview:** modular_plugs_jacks
**Description:** Modular Jack, Right Angle, Low Profile, 8/8, 8 Ports

**Documents:**

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



*Series image - Reference only*

## 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 | 8 |
| 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 |

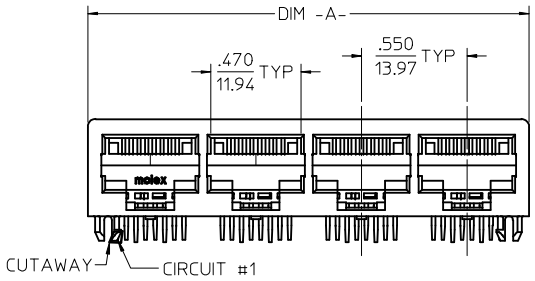
## Material Info

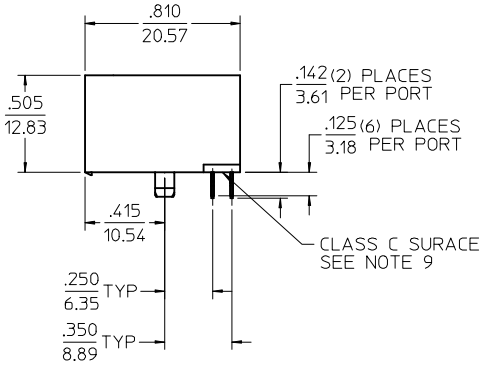
## Reference - Drawing Numbers

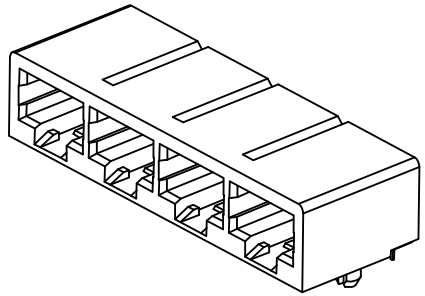
| | |
|---|---|
| Packaging Specification | PK-44150-004 |
| Product Specification | PS-44050-003 |
| Sales Drawing | SD-44150-002 |
| Test Summary | TS-44050-001 |

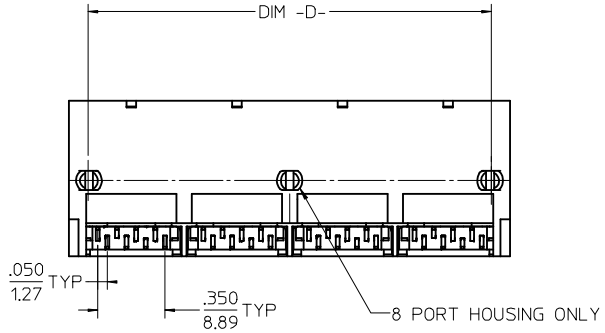
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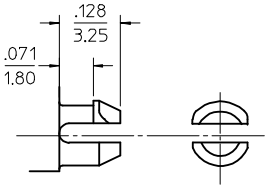
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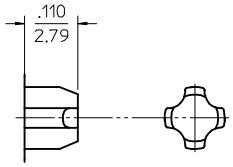






PEG OPTION "A"
SNAP-FIT PEG
SEE NOTE #7
(SCALE NTS)




PEG OPTION "B"
PRESS-FIT PEG
SEE NOTE #7
(SCALE NTS)

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:
UNSIELDED 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 2008/09/05
DRWN: JBELL 2008/09/11
CH'KD: JBELL
APPR: FSMITH 2008/09/11
DESCRIPTION
D1
REV

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
SCALE: 2:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

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

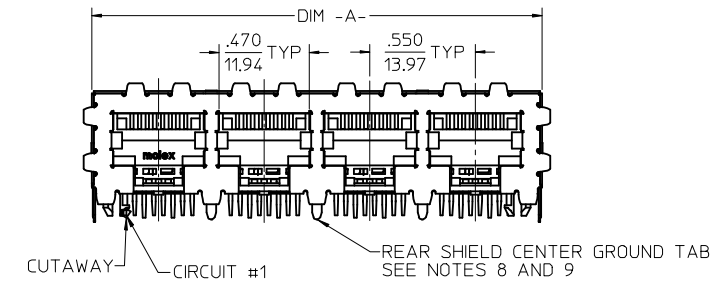
TITLE: CATEGORY 5E MODULAR JACK ASSEMBLIES, GANGED

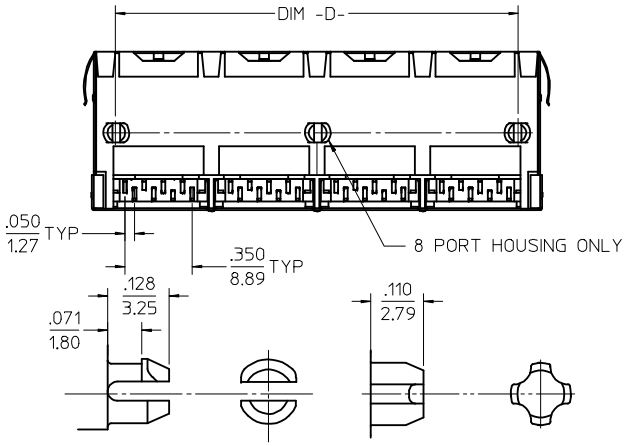
MOLEX INCORPORATED

DOCUMENT NO.: SD-44150-002
SHEET NO.: 1 OF 3

SIZE: C

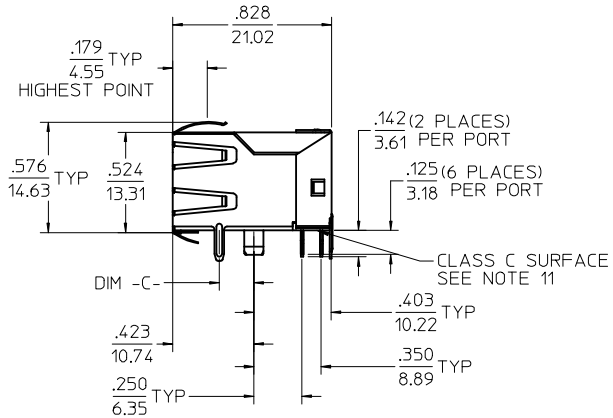
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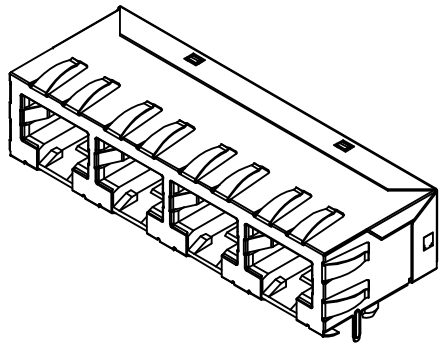



PEG OPTION "A"
SNAP-FIT PEG
SEE NOTE #8
(SCALE NTS)

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 2008/09/05
DRWN: JBELL 2008/09/11
CHK'D: JBELL
APPR: FSMITH 2008/09/11
DESCRIPTION
D1
REV

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
SCALE: 2:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: MARANTO DATE: 98/01/21
CHECKED BY: ROBERTS DATE: 98/01/21
APPROVED BY: ROBERTS DATE: 98/01/21

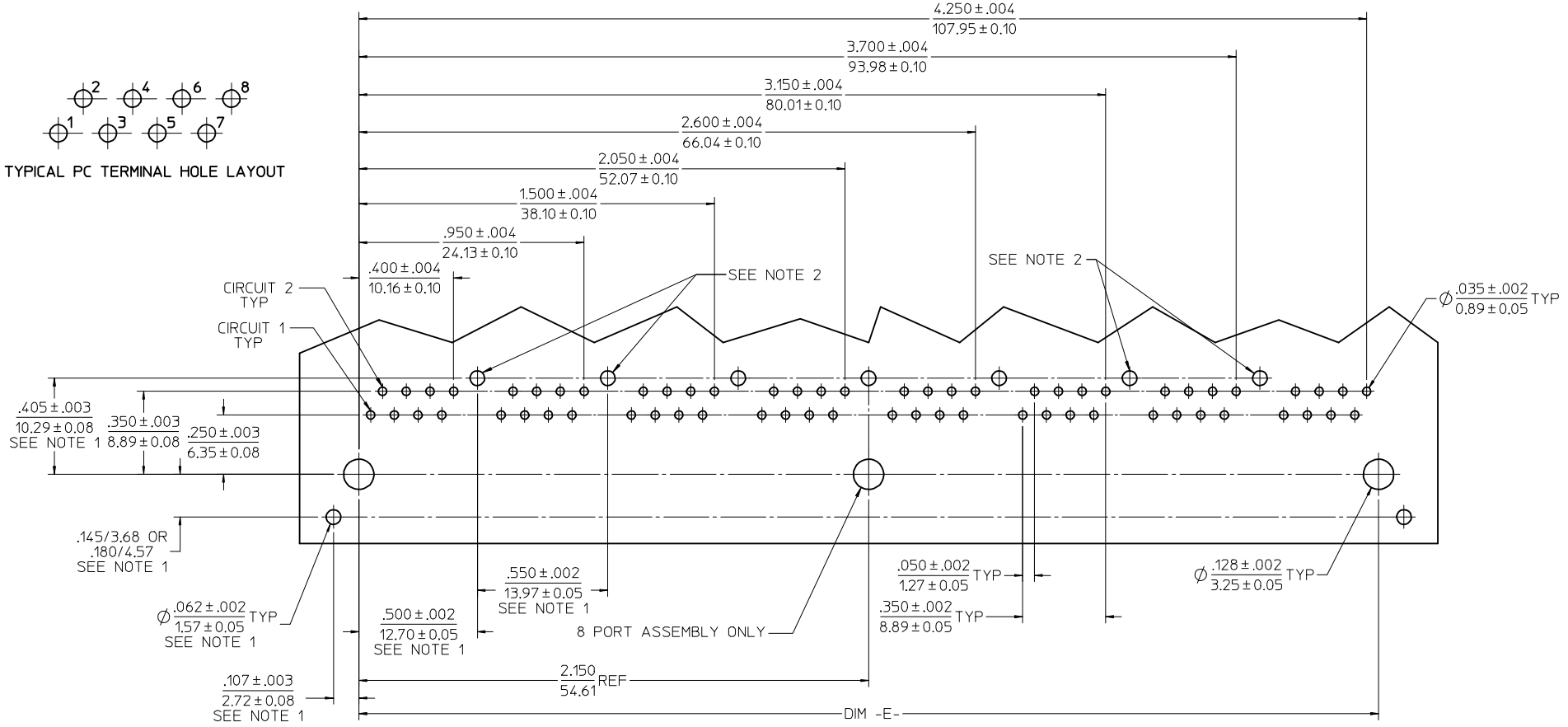
TITLE: CATEGORY 5E MODULAR JACK ASSEMBLIES, GANGED

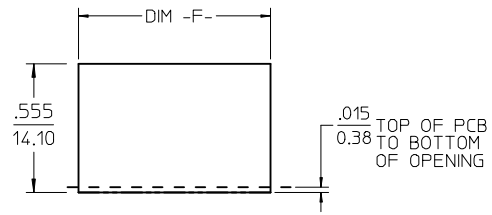
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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-44150-002
SHEET NO.: 2 OF 3

SIZE: C

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## SUGGESTED PANEL OPENING
SHIELDED VERSIONS

## 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 2008/09/05
DRWN: JBELL 2008/09/11
CH'KD: JBELL
APPR: FSMITH
DESCRIPTION
D1
REV

QUALITY SYMBOLS
▼=0
▽C=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
SCALE
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

| | | |
|---|---|---|
| DRAWN BY | MARANTO | DATE 98/01/21 |
| CHECKED BY | ROBERTS | DATE 98/01/21 |
| APPROVED BY | ROBERTS | DATE 98/01/21 |

TITLE: CATEGORY 5E MODULAR JACK ASSEMBLIES, GANGED

MOLEX INCORPORATED

MATERIAL NO.: N/A
DOCUMENT NO.: SD-44150-002
SHEET NO.: 3 OF 3

SIZE C

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