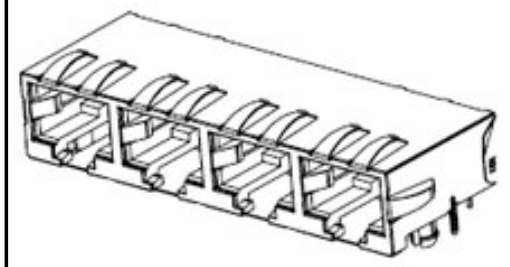
This document was generated on 06/08/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0445600012
Status: Active
Overview: modular_plugs_jacks
Description: Modular Jack, Right Angle, Low Profile, 8/8, 2 Ports



Series image - Reference only

Documents:

Drawing (PDF)
3D Model
Packaging Specification (PDF)
Test Summary (PDF)
Product Specification PS-44560-003 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E107635

General

Product Family	Modular Jacks/Plugs
Series	44560
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	High Temperature Thermoplastic
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)	Yes
Temperature Range - Operating	-40°C to +70°C
Termination Interface: Style	Through Hole
Wire/Cable Type	N/A

Electrical

Current - Maximum per Contact	1.5A
Grounding to Panel	Yes
Shielded	Yes
Voltage - Maximum	150V

Solder Process Data

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Halogen-Free

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
44560Series

Mates With
FCC 68 Plugs

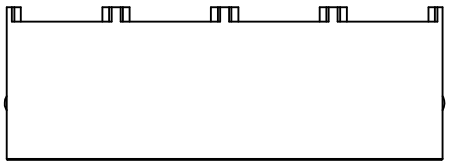
Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

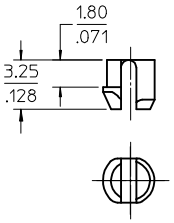
Material Info

Reference - Drawing Numbers

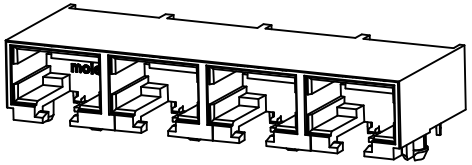
Packaging Specification	PK-44560-004
Product Specification	PS-44560-003, RPS-44560-004
Sales Drawing	SD-44560-001
Test Summary	TS-44560-003

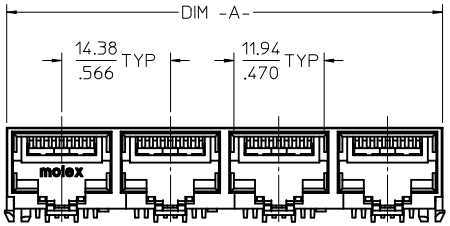
This document was generated on 06/08/2010
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

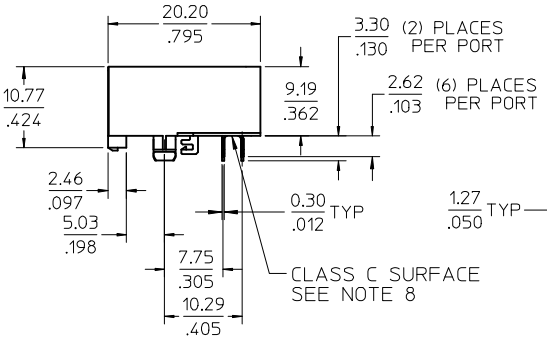


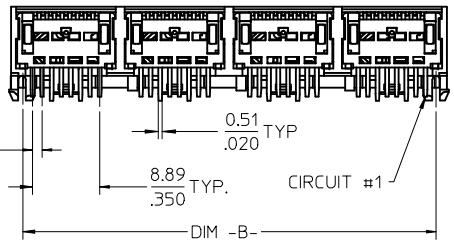


PEG DETAIL
SCALE 4:1









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 MATTE TIN IN PC TAIL AREA: 100 MICROINCHES (2.54 MICROMETERS) MIN.,
   WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES (1.27 MICROMETERS) MIN.
3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-44560-003.
4) PACKAGING SPECIFICATION:
   2 PORT: CONNECTOR PACKAGED IN TRAYS PER MOLEX PACKAGING SPECIFICATION PK-44560-004
   4 PORT: CONNECTOR PACKAGED IN TRAYS PER MOLEX PACKAGING SPECIFICATION PK-44560-005
5) CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.
6) SEE SHEET (4) OF (4) FOR RECOMMENDED PANEL OPENING AND PCB LAYOUT.
7) TERMINAL LENGTHS MAY BE DIFFERENT FROM TERMINAL TO TERMINAL.
8) 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.
9) THIS PRODUCT IS COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC.

ASSEMBLY MATERIAL NUMBER	NUMBER OF PORTS	DIM -A-	DIM -B-
445600001	2	28.96/1.140	25.68/1.011
445600003	4	57.71/2.272	54.43/2.143

UPDATE NOTES
EC NO: UCP2009-2791 2009/07/06
DRWN: JBELL 2009/07/22
CH'KD: MKIPPER 2009/07/23
APPR: FSMITH
DESCRIPTION
G2
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .012
2 PLACES	± 0.30	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 2:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	MKAMAR	00/03/28
CHECKED BY	MKAMAR	00/03/28
APPROVED BY	JROBERTS	00/03/28

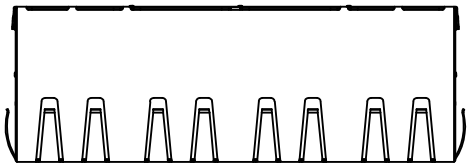
TITLE: COMPACT GANGED CATEGORY 5E MODJACK

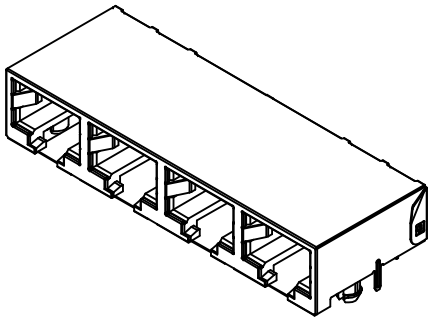
molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-44560-001
SHEET NO.: 1 OF 4

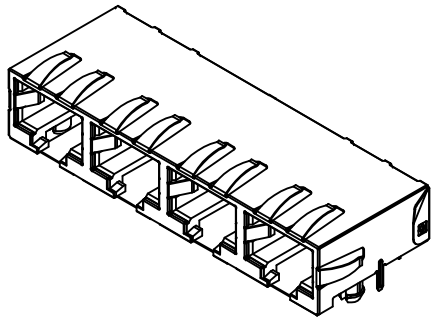
SIZE C

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

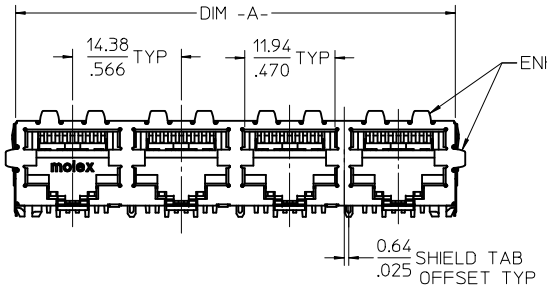


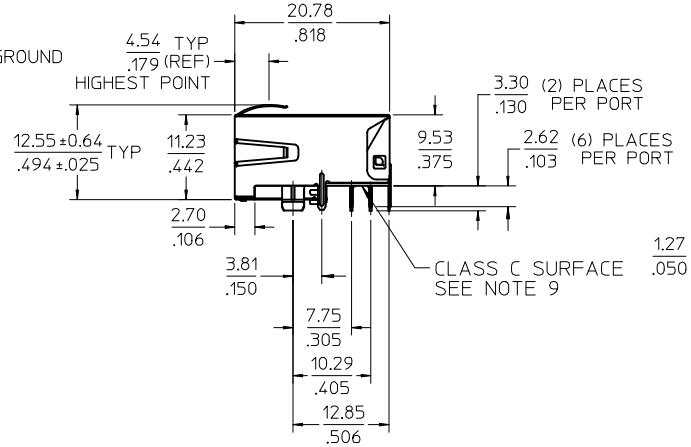


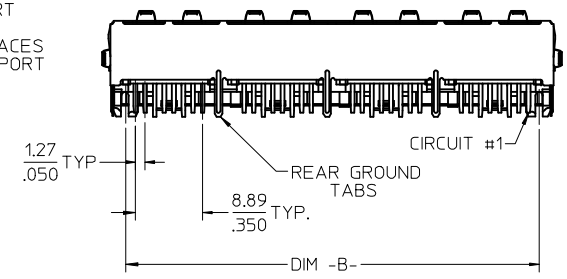
SHIELDING OPTION -A-
STANDARD SHIELD
(SEE CHART)

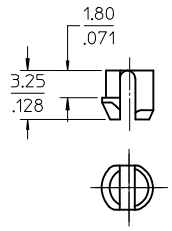


SHIELDING OPTION -B-
ENHANCED GROUND TABS
(SEE CHART)









PEG DETAIL
SCALE 4:1

NOTES:
1) MATERIAL:
   HOUSING: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK
   TERMINALS: PHOSPHOR BRONZE
   SHIELD: BRASS, .007/(0.18) THICK
2) FINISH:
   TERMINALS:
   SELECT GOLD IN CONTACT AREA: 50 MICROINCHES (1.27 MICROMETERS) MIN.,
   SELECT MATTE 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.
3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-44560-003.
4) PACKAGING SPECIFICATION:
   2 PORT: CONNECTOR PACKAGED IN TRAYS PER MOLEX PACKAGING SPECIFICATION PK-44560-004
   4 PORT: CONNECTOR PACKAGED IN TRAYS PER MOLEX PACKAGING SPECIFICATION PK-44560-005
5) CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.
6) ENHANCED GROUND TABS SHIELD (OPTION -B-) IS SHOWN IN THIS DRAWING. (SEE CHART)
7) SEE SHEET (4) OF (4) FOR RECOMMENDED PANEL OPENING AND PCB LAYOUT.
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.
10) THIS PRODUCT IS COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC.

ASSEMBLY MATERIAL NUMBER	SHIELDING OPTION	NUMBER OF REAR GROUND TABS	NUMBER OF PORTS	DIM -A-	DIM -B-
445600002	A	1	2	29.44/1.159	25.68/1.011
445600004	A	3	4	58.19/2.291	54.43/2.143
445600012	B	1	2	29.44/1.159	25.68/1.011
445600014	B	3	4	58.19/2.291	54.43/2.143

UPDATE NOTES
EC NO: UCP2009-2791 2009/07/06
DRWN: JBELL 2009/07/22
CH'KD: MKIPPER
APPR: FSMITH 2009/07/23
DESCRIPTION
G2
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .012
2 PLACES	± 0.30	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 2:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

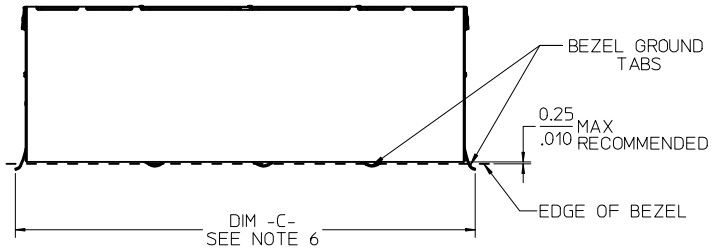
		DATE
DRAWN BY	MKAMAR	00/03/28
CHECKED BY	MKAMAR	00/03/28
APPROVED BY	JROBERTS	00/03/28

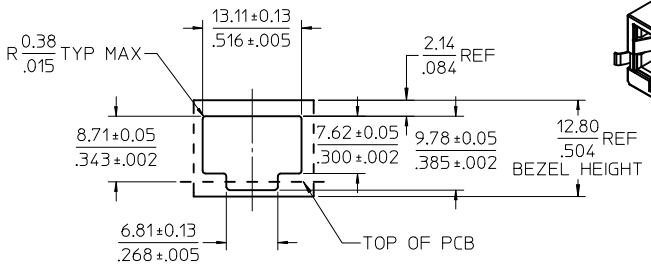
TITLE: COMPACT GANGED CATEGORY 5E MODJACK

MOLEX INCORPORATED

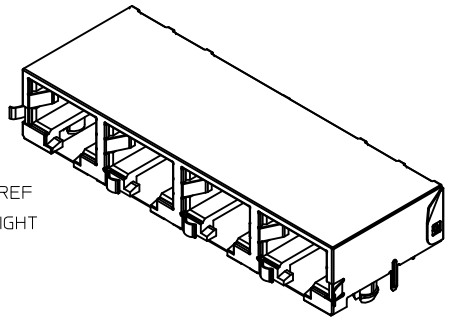
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-44560-001
SHEET NO.: 2 OF 4
SIZE: C

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

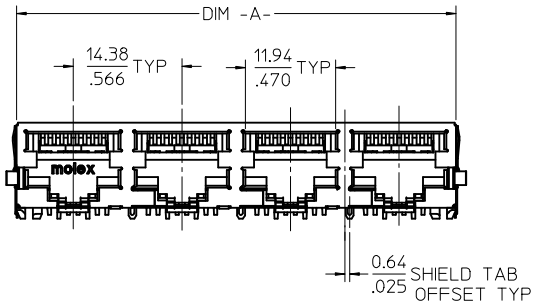


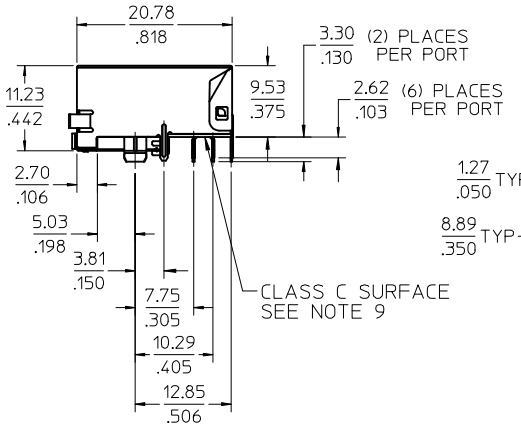


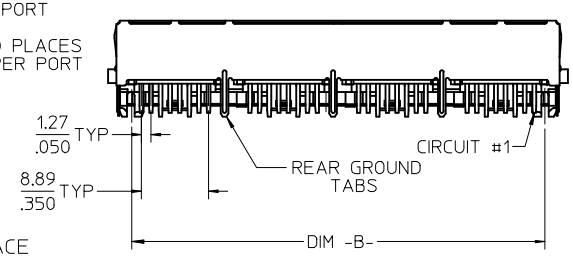
RECOMMENDED
PANEL OPENING
(EACH PORT)
FOR PMC BEZEL ONLY

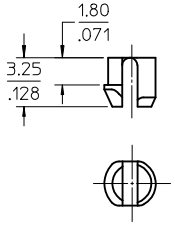


SHIELDING OPTION -C-
BEZEL GROUND TABS









PEG DETAIL
SCALE 4:1

NOTES:
1) MATERIAL:
   HOUSING: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK
   TERMINALS: PHOSPHOR BRONZE
   SHIELD: BRASS, .007/(0.18) THICK
2) FINISH:
   TERMINALS:
   SELECT GOLD IN CONTACT AREA: 50 MICROINCHES (1.27 MICROMETERS) MIN.,
   SELECT MATTE 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.
3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-44560-003.
4) PACKAGING SPECIFICATION:
   2 PORT: CONNECTOR PACKAGED IN TRAYS PER MOLEX PACKAGING SPECIFICATION PK-44560-004
   4 PORT: CONNECTOR PACKAGED IN TRAYS PER MOLEX PACKAGING SPECIFICATION PK-44560-005
5) CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.
6) THIS DIMENSION HAS A MAXIMUM OF 34.82/1.371 FOR THE (2) PORT PART AND 63.57/2.503 FOR THE (4) PORT PART WHEN THE JACK IS INSTALLED BEHIND THE BEZEL.
7) SEE SHEET (4) OF (4) FOR RECOMMENDED PCB LAYOUT.
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.
10) THIS PRODUCT IS COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC.

ASSEMBLY MATERIAL NUMBER	SHIELDING OPTION	NUMBER OF REAR GROUND TABS	NUMBER OF PORTS	DIM -A-	DIM -B-	DIM -C-
445600022	C	1	2	29.44/1.159	25.68/1.011	32.13/1.265
445600024	C	3	4	58.19/2.291	54.43/2.143	60.88/2.397

UPDATE NOTES
EC NO: UCP2009-2791 2009/07/06
DRWN:JBELL 2009/07/22
CH'KD:MKIPPER 2009/07/23
APPR:FSMITH DESCRIPTION
G2 REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .012
2 PLACES	± 0.30	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 2:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

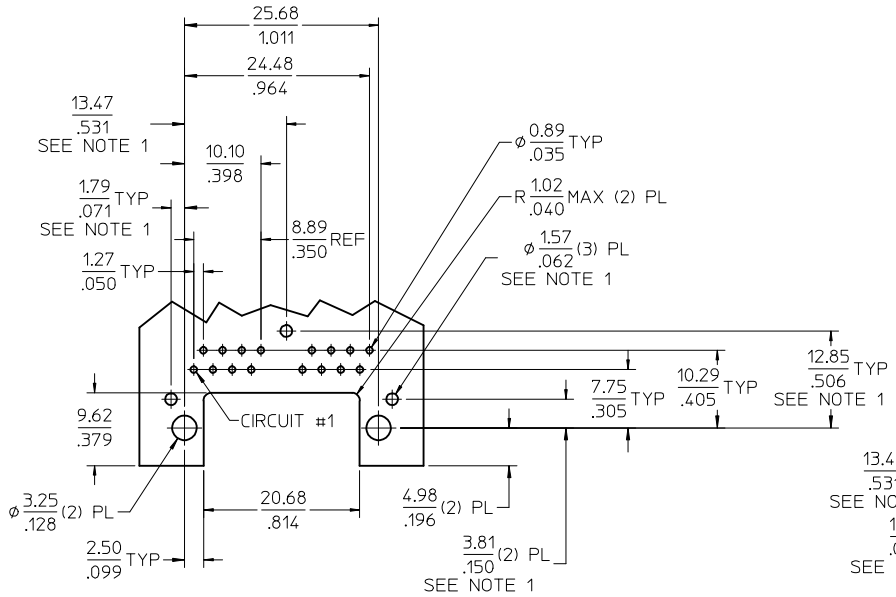
DRAWN BY: MKAMAR DATE: 00/03/28
CHECKED BY: MKAMAR DATE: 00/03/28
APPROVED BY: JROBERTS DATE: 00/03/28
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-44560-001
SHEET NO.: 3 OF 4

TITLE: COMPACT GANGED CATEGORY 5E MODJACK

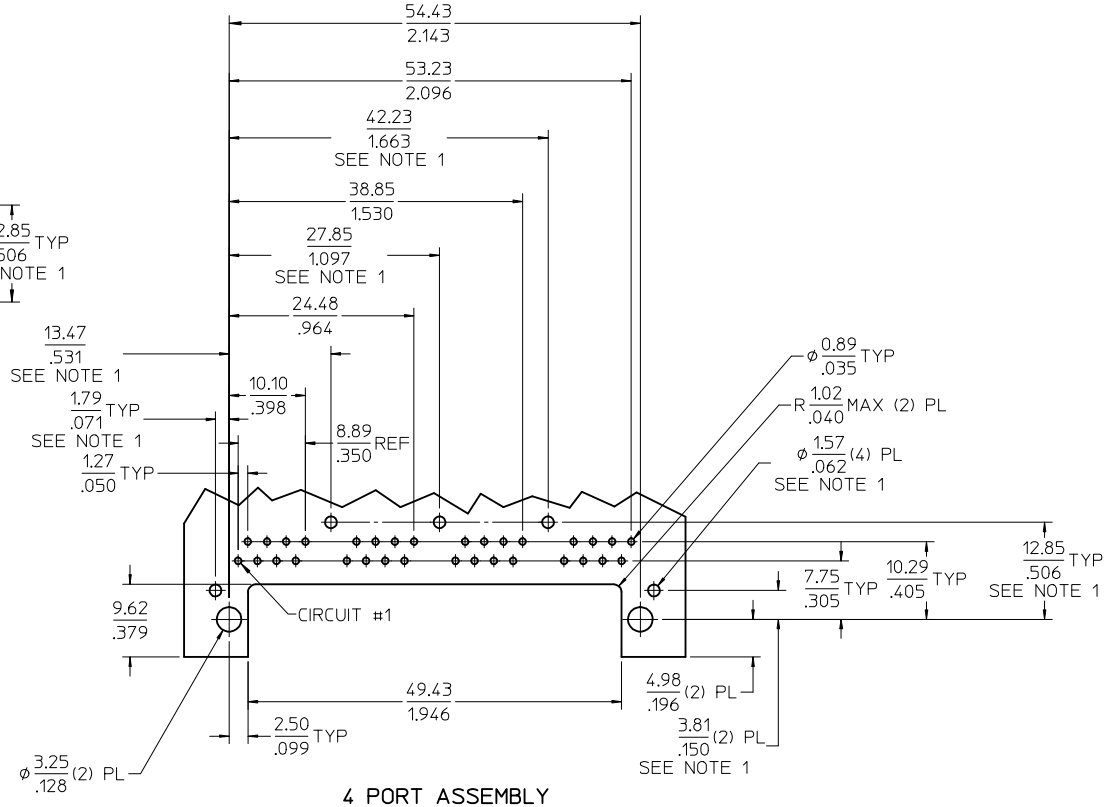
MOLEX INCORPORATED

SIZE: C

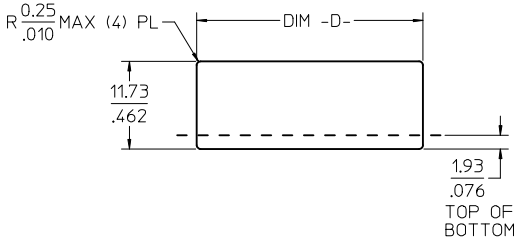
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



2 PORT ASSEMBLY
PCB LAYOUT : COMPONENT SIDE
RECOMMENDED PCB THICKNESS: 1.57/.062
TOLERANCE ±.076/.003 UNLESS OTHERWISE SPECIFIED

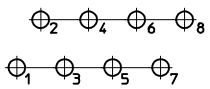


4 PORT ASSEMBLY
PCB LAYOUT : COMPONENT SIDE
RECOMMENDED PCB THICKNESS: 1.57/.062
TOLERANCE ±.076/.003 UNLESS OTHERWISE SPECIFIED



NUMBER OF PORTS	DIM -D-
2	30.20/1.189
4	58.95/2.321

RECOMMENDED
PANEL OPENING
SHIELDING OPTIONS
A AND B



TYPICAL PC TERMINAL HOLE LAYOUT
SCALE 5:1

NOTES:

1. DIMENSIONS REFER TO ASSEMBLIES WITH SHIELDING OPTION

SEE SHEET 1
EC NO: UCP2009-2791 2009/07/06
DRWN: JBELL 2009/07/22
CH'KD: MKIPPER
APPR: FSMITH 2009/07/23
DESCRIPTION
G2
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .012
2 PLACES	± 0.30	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM/IN
SCALE	2:1
DESIGN UNITS	INCH
	THIRD ANGLE PROJECTION
DRAWN BY	MKAMAR
DATE	00/03/28
CHECKED BY	MKAMAR
DATE	00/03/28
APPROVED BY	JROBERTS
DATE	00/03/28
MATERIAL NO.	N/A
TITLE	COMPACT GANGED CATEGORY 5E MODJACK
	MOLEX INCORPORATED
DOCUMENT NO.	SD-44560-001
SHEET NO.	4 OF 4
SIZE	C

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