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Part Number: [0440500003](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Right Angle, Low Profile, 8/8

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	44050
Component Type	PCB Jack
Magnetic	No
Overview	modular_plugs_jacks
Performance Category	5
Power over Ethernet (PoE)	N/A
Product Name	RJ45

Physical

Boot Color	N/A
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	High Temperature Thermoplastic
Orientation	Right Angle (Side Entry)
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.040 In
Pitch - Mating Interface (mm)	1.02 mm
Pitch - Term. Interface (in)	0.050 In
Pitch - Term. Interface (mm)	1.27 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
Waterproof / Dustproof	No
Wire/Cable Type	N/A

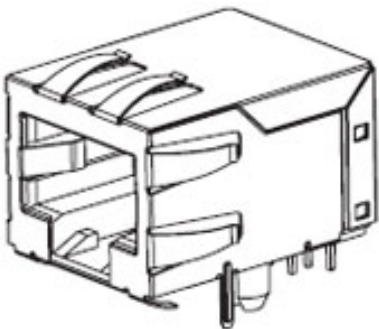


image - Reference only

Series

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
[44050Series](#)

Mates With
FCC 68 Plugs

Electrical

Current - Maximum per Contact	1.5A
Grounding to Panel	Location F, With All Panel Grounding Tab
Shielded	Yes
Voltage - Maximum	150V AC (RMS)

Solder Process Data

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

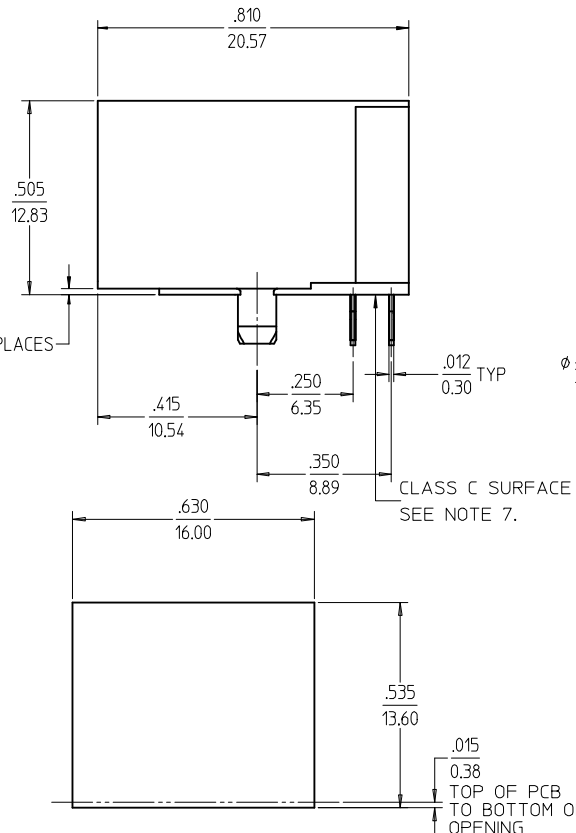
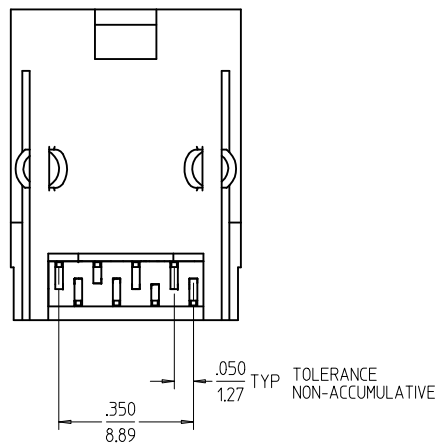
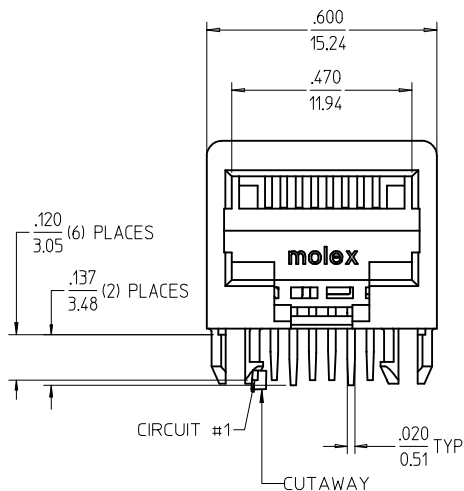
Material Info

Reference - Drawing Numbers

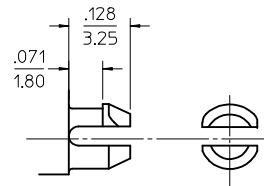
Packaging Specification	PK-44050-004
Product Specification	PS-44050-003
Sales Drawing	SD-44050-002
Test Summary	TS-44050-001

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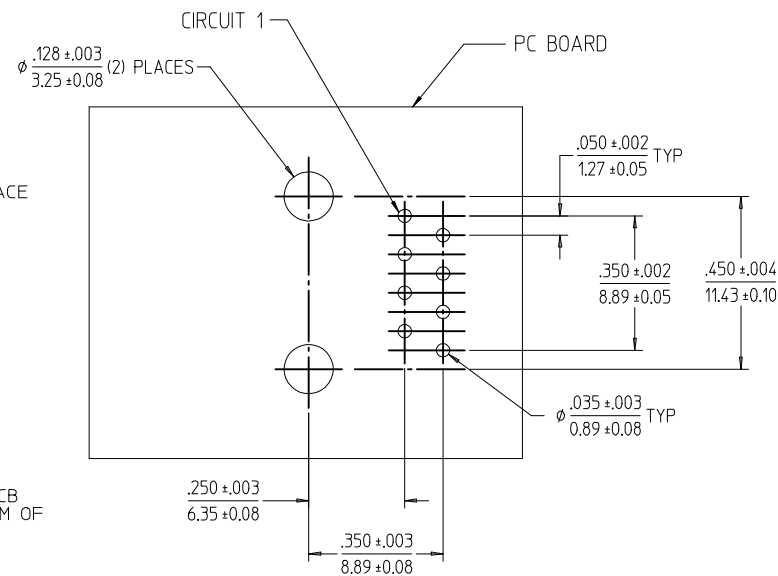
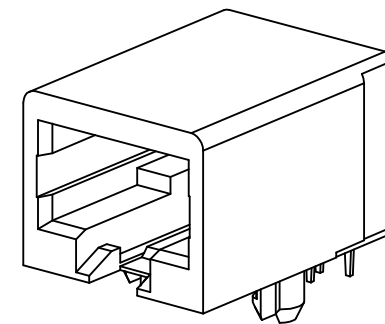
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RECOMMENDED PANEL
OPENING



SNAP-FIT PEG
SCALE: NTS



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

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-44050-003.
- 4) PACKAGING SPECIFICATION:
CONNECTOR ASSEMBLIES IN THERMOFORMED TRAYS PER MOLEX PACKAGING SPECIFICATION PK-44050-004.
- 5) MATES WITH: MODULAR PLUGS THAT CONFORM TO FCC REGULATION PART 68.5.
- 6) TERMINAL LENGTHS MAY BE DIFFERENT FROM TERMINAL TO TERMINAL.
- 7) 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.

MODIFY NOTE 2
EC NO: UCP2009-3112
DRWN:IRAGULAR 2009/07/06
CHKD:JBELL 2009/07/06
APPR:FSMITH 2009/07/07
REV E2

QUALITY
SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± .005	± .0004
3 PLACES	± .005	± .0004
2 PLACES	± .005	± .0004
1 PLACE	± .005	± .0004
ANGULAR ± 1/2°		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY	DATE
MARANTO	98/04/06
CHECKED BY	DATE
ROBERTS	98/04/06
APPROVED BY	DATE
ROBERTS	98/04/06

MATERIAL NO.
440500001

SIZE
C

SCALE
4:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

TITLE
CATEGORY 5E MODULAR JACK
ASSEMBLIES, SINGLE PORT

MOLEX INCORPORATED

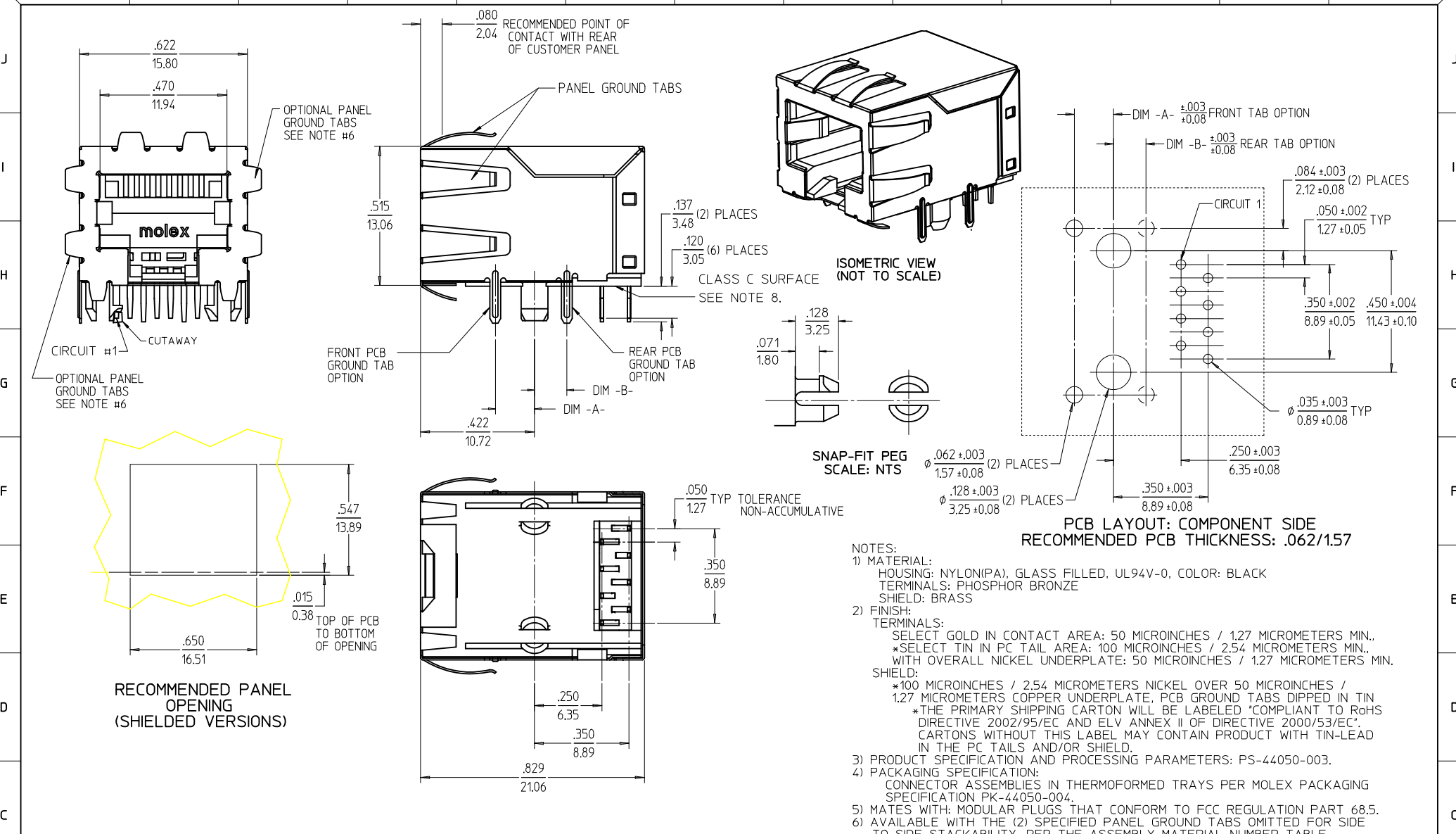
DOCUMENT NO.
SD-44050-002

SHEET NO.
1 OF 2

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

J I H G F E D C B A



ASSEMBLY MATERIAL NUM	DIM -A-	DIM -B-	PANEL GROUND TAB OPTION
440500007	.120/3.05	N/A	ALL
440500002	.145/3.68	N/A	ALL
440500006	.180/4.57	N/A	ALL
440500003	N/A	.120/3.05	ALL
440500009	.120/3.05	N/A	SEE NOTE #6
440500004	.145/3.68	N/A	SEE NOTE #6
440500008	.180/4.57	N/A	SEE NOTE #6
440500005	N/A	.120/3.05	SEE NOTE #6

SEE SHEET 1	EC NO: UCP2009-3112	2009/07/06	2009/07/06	2009/07/06	2009/07/06
DRWN:RAGULAR	CHKD:BELL	APPR:FSMTH	REV	DESCRIPTION	QUALITY SYMBOLS
E2					

GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		IN/MM		4:1	INCH	
4 PLACES	± .003	mm	INCH	DRAWN BY	DATE	TITLE
3 PLACES	± .010	± .003	± .010	MARANTO	98/04/06	CATEGORY 5E MODULAR JACK ASSEMBLIES, SINGLE PORT
2 PLACES	± .025	± .010	± .025	CHECKED BY	DATE	
1 PLACE	± .050	± .025	± .050	ROBERTS	98/04/06	
ANGULAR ± 1/2°		APPROVED BY		DATE		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ROBERTS		98/04/06		
MATERIAL NO.		SEE CHART		DOCUMENT NO.		SHEET NO.
SIZE		C		SD-44050-002		2 OF 2
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