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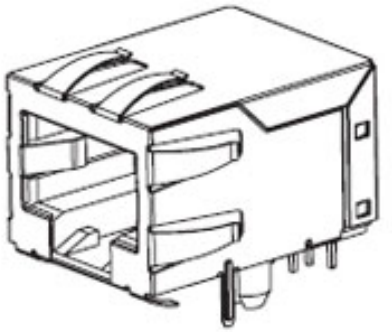
This document was generated on 06/07/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0440500002
Status: Active
Overview: modular_plugs_jacks
Description: Modular Jack, Right Angle, Low Profile, 8/8

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	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	Brass, 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

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
44050Series

Mates With
FCC 68 Plugs

Electrical

Current - Maximum per Contact	1.5A
Grounding to Panel	Location E, 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

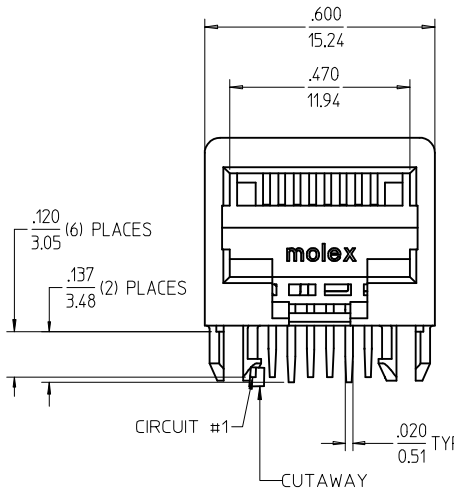
Material Info

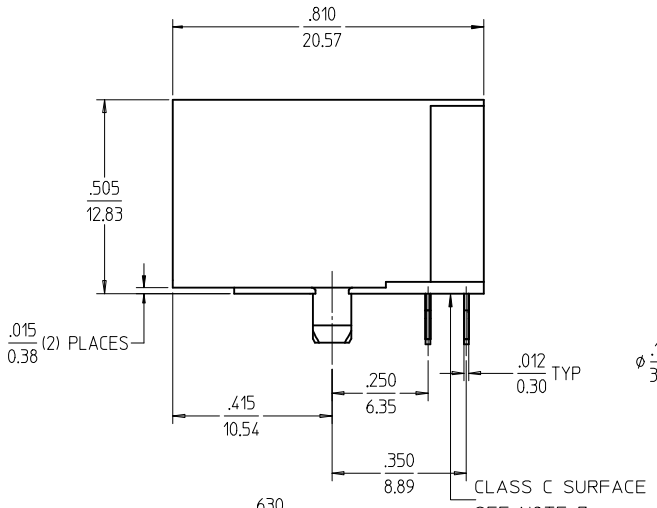
Reference - Drawing Numbers

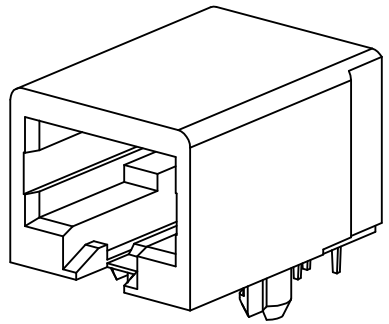
Packaging Specification	PK-44050-004
Product Specification	PS-44050-003
Sales Drawing	SD-44050-002
Test Summary	TS-44050-001

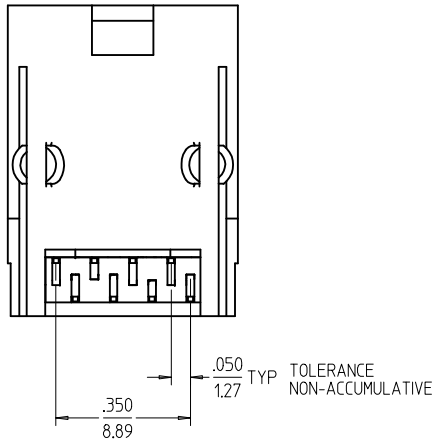
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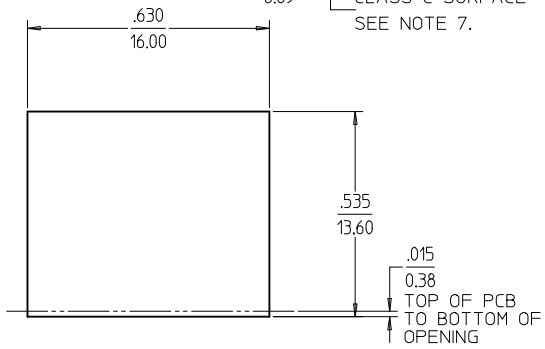
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



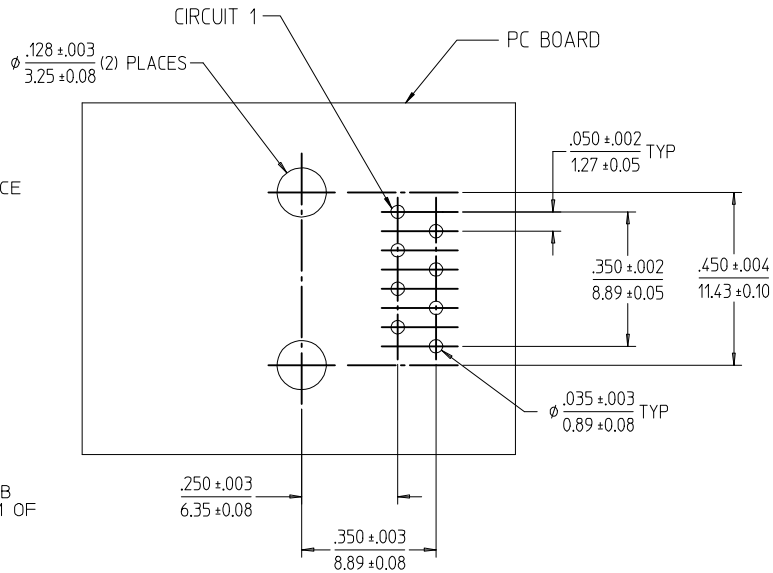




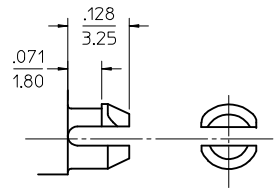




RECOMMENDED PANEL
OPENING



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



SNAP-FIT PEG
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 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.

DESCRIPTION	REV
MODIFY NOTE 2 EC NO: UCP2009-3112 DRWN:JRAGUILAR 2009/07/06 CH'KD:JBELL 2009/07/06 APPR:FSMITH 2009/07/07	E2

QUALITY SYMBOLS
▼=0
▽=0

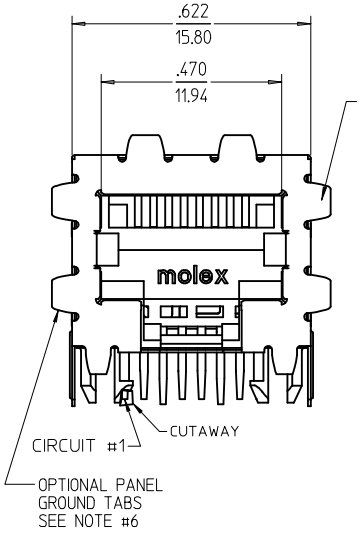
GENERAL TOLERANCES (UNLESS SPECIFIED)

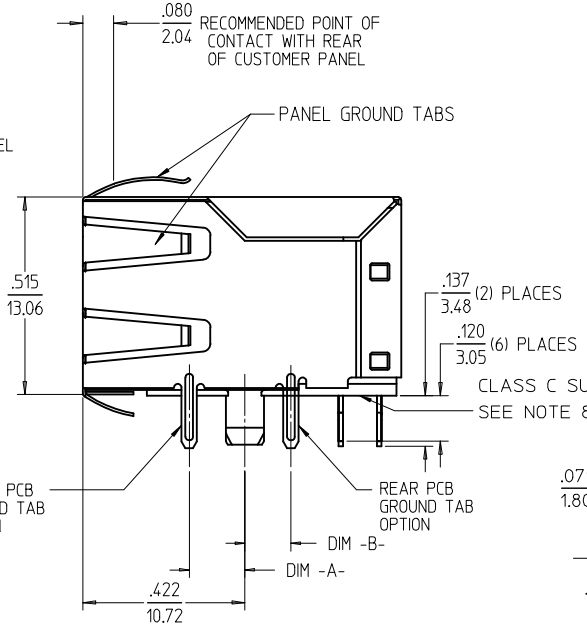
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

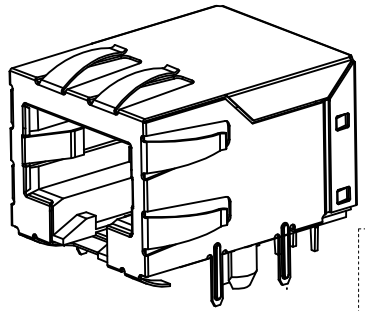
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

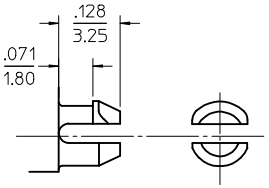
DIMENSION STYLE	IN/MM
SCALE	4:1
DESIGN UNITS	INCH
	THIRD ANGLE PROJECTION
DRAWN BY	MARANTO
DATE	98/04/06
CHECKED BY	ROBERTS
DATE	98/04/06
APPROVED BY	ROBERTS
DATE	98/04/06
MATERIAL NO.	440500001
TITLE	CATEGORY 5E MODULAR JACK ASSEMBLIES, SINGLE PORT
	MOLEX INCORPORATED
DOCUMENT NO.	SD-44050-002
SHEET NO.	1 OF 2
SIZE	C

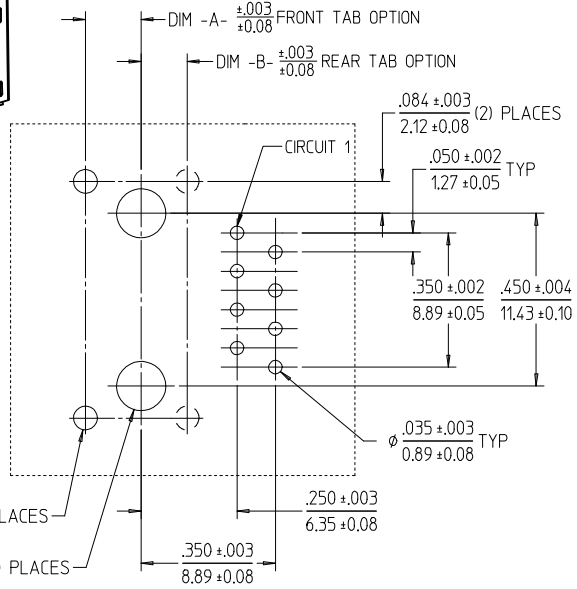
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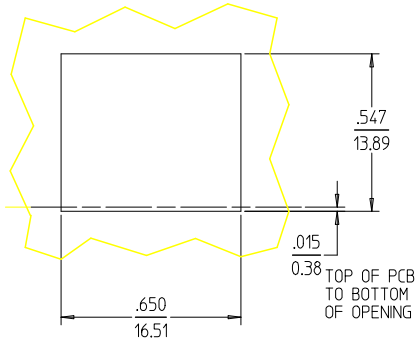




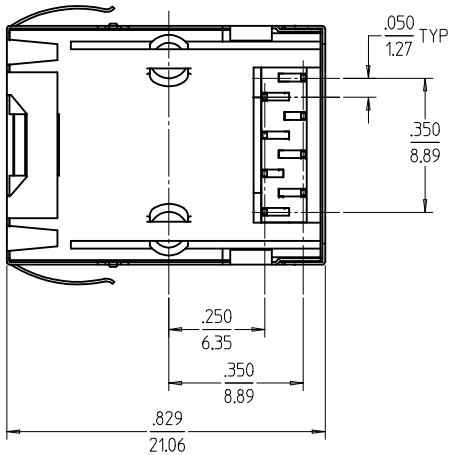




PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: .062/1.57



RECOMMENDED PANEL
OPENING
(SHIELDED VERSIONS)



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:
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) AVAILABLE WITH THE (2) SPECIFIED PANEL GROUND TABS OMITTED FOR SIDE
TO SIDE STACKABILITY, PER THE ASSEMBLY MATERIAL NUMBER TABLE.
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.

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
DRWN: JRAGUILAR 2009/07/06
CH'KD: JBELL 2009/07/07
APPR: FSMITH
DESCRIPTION
E2
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: 4:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

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

TITLE: CATEGORY 5E MODULAR JACK ASSEMBLIES, SINGLE PORT

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-44050-002
SHEET NO.: 2 OF 2
SIZE: C

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