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Part Number:

0445200003

Status:

Active

Overview:

modular_plugs_jacks

Description:

Modular Jack, Right Angle, Shielded, Stacked, 8/8, 16 Ports

Documents:

3D Model

Drawing (PDF)

Packaging Specification (PDF)

Product Specification PS-44050-003 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

UL

E107635

General

Product Family

Modular Jacks/Plugs

Series

44520

Comments

High Speed|Multi-Port

Component Type

PCB Jack

Magnetic

No

Overview

modular_plugs_jacks

Performance Category

5

Power over Ethernet (PoE)

N/A

Product Name

RJ45

Physical

Color - Resin

Black

Durability (mating cycles max)

500

Flammability

94V-0

Inverted / Top Latch

Yes

Lightpipes/LEDs

None

Material - Metal

Brass, Phosphor Bronze

Material - Plating Mating

Gold

Material - Plating Termination

Tin

Material - Resin

Polyester

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

16

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

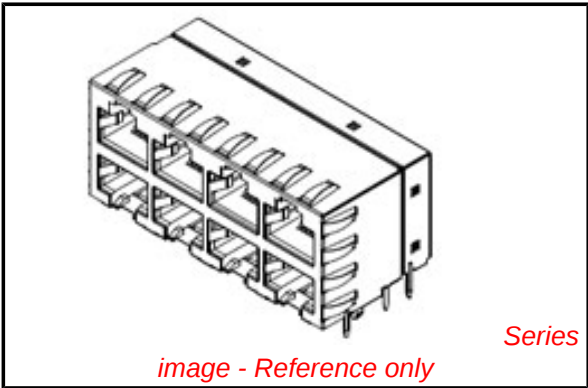
Shielded

Yes

Voltage - Maximum

125V

Solder Process Data



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
44520Series

Mates With
FCC 68 Plugs

Lead-free Process Capability

Wave Capable (TH only)

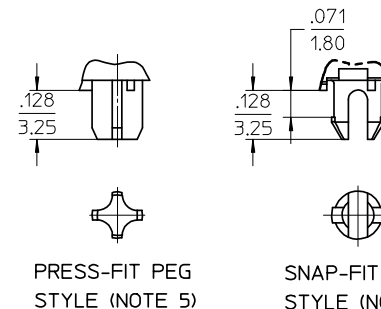
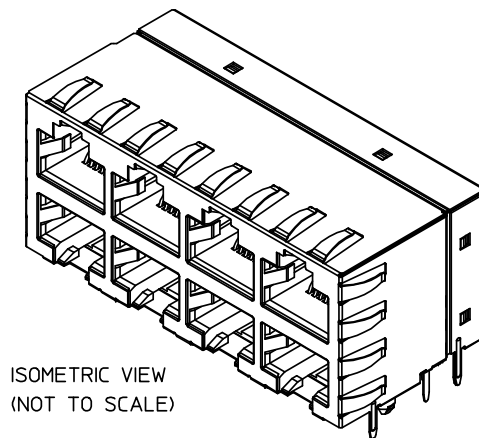
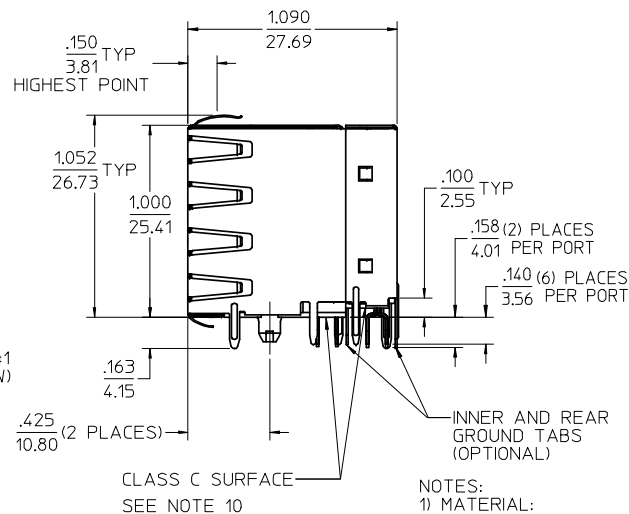
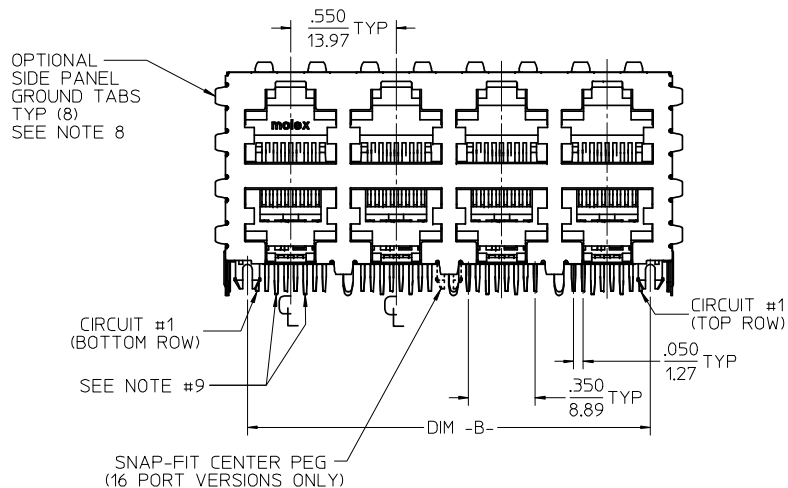
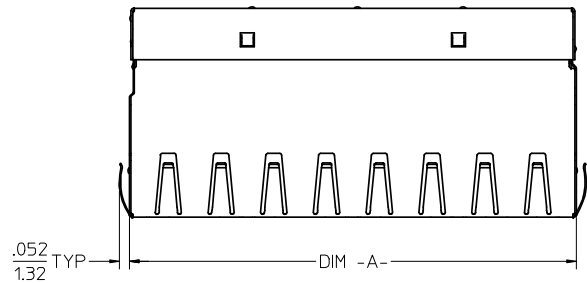
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-44520-003
Product Specification	PS-44050-003
Sales Drawing	SD-44520-001

This document was generated on 06/08/2010

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- NOTES:
- 1) MATERIAL:
HOUSING: POLYESTER(PBT), GLASS FILLED, UL94V-0, COLOR: BLACK
TERMINALS: PHOSPHOR BRONZE
SHIELD: BRASS
 - 2) FINISH:
TERMINALS:
SELECT GOLD IN CONTACT AREA: 50 MICROINCHES MIN.,
*SELECT TIN IN PC TAIL AREA: 100 MICROINCHES MIN.,
WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES MIN.
SHIELD:
*100 MICROINCHES NICKEL OVER 50 MICROINCHES 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 PACKAGED IN THERMOFORMED TRAYS.
 - 5) CONNECTORS AVAILABLE WITH EITHER SNAP-FIT OR PRESS-FIT PEGS.
 - 6) CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.
 - 7) PCB LAYOUT AND PANEL CUT-OUT SHOWN ON SHEET (2) OF (2).
 - 8) AVAILABLE WITH THE (8) PANEL GROUND TABS REMOVED ON EACH SIDE
FOR SIDE TO SIDE STACKABILITY.
 - 9) TERMINAL LENGTHS MAY BE DIFFERENT FROM TERMINAL TO TERMINAL.
 - 10) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION
PS-45499-002 WITH THE EXCEPTION OF THE INDICATED SURFACE WHICH IS
A CLASS C SURFACE.

ASSEMBLY MATERIAL NUMBER	NUMBER OF PORTS	PEG STYLE	DIM -A-	DIM -B-	SIDE PANEL GROUND TABS	INNER/REAR GROUND TABS
44520-0001	8 (2 X 4)	SNAP-FIT	2.330/59.18	2.100/53.34	YES	YES
44520-2001	8 (2 X 4)	SNAP-FIT	2.330/59.18	2.100/53.34	NO	YES
44520-3001	8 (2 X 4)	SNAP-FIT	2.330/59.18	2.100/53.34	YES	NO
44520-4001	8 (2 X 4)	SNAP-FIT	2.330/59.18	2.100/53.34	NO	NO
44520-0004	8 (2 X 4)	PRESS-FIT	2.330/59.18	2.100/53.34	YES	YES
44520-2004	8 (2 X 4)	PRESS-FIT	2.330/59.18	2.100/53.34	NO	YES
44520-3004	8 (2 X 4)	PRESS-FIT	2.330/59.18	2.100/53.34	YES	NO
44520-4004	8 (2 X 4)	PRESS-FIT	2.330/59.18	2.100/53.34	NO	NO
44520-0002	12 (2 X 6)	SNAP-FIT	3.430/87.12	3.200/81.28	YES	YES
44520-2002	12 (2 X 6)	SNAP-FIT	3.430/87.12	3.200/81.28	NO	YES
44520-3002	12 (2 X 6)	SNAP-FIT	3.430/87.12	3.200/81.28	YES	NO
44520-4002	12 (2 X 6)	SNAP-FIT	3.430/87.12	3.200/81.28	NO	NO
44520-0005	12 (2 X 6)	PRESS-FIT	3.430/87.12	3.200/81.28	YES	YES
44520-2005	12 (2 X 6)	PRESS-FIT	3.430/87.12	3.200/81.28	NO	YES
44520-3005	12 (2 X 6)	PRESS-FIT	3.430/87.12	3.200/81.28	YES	NO
44520-4005	12 (2 X 6)	PRESS-FIT	3.430/87.12	3.200/81.28	NO	NO
44520-0003	16 (2 X 8)	SNAP-FIT	4.530/115.06	4.300/109.22	YES	YES
44520-2003	16 (2 X 8)	SNAP-FIT	4.530/115.06	4.300/109.22	NO	YES
44520-3003	16 (2 X 8)	SNAP-FIT	4.530/115.06	4.300/109.22	YES	NO
44520-4003	16 (2 X 8)	SNAP-FIT	4.530/115.06	4.300/109.22	NO	NO
44520-0006	16 (2 X 8)	PRESS-FIT	4.530/115.06	4.300/109.22	YES	YES
44520-2006	16 (2 X 8)	PRESS-FIT	4.530/115.06	4.300/109.22	NO	YES
44520-3006	16 (2 X 8)	PRESS-FIT	4.530/115.06	4.300/109.22	YES	NO
44520-4006	16 (2 X 8)	PRESS-FIT	4.530/115.06	4.300/109.22	NO	NO

ADDED NOTE 10
EC NO: UCP2009-0280
DRAWN: KLOSTER 2008/08/01
CHKD: J.BELL 2008/08/04
APPR: F.S.MITH 2008/08/04
REV: C2

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

DRAWN BY DATE
MARGULIS 99/04/16

CHECKED BY DATE
ROBERTS 99/04/18

APPROVED BY DATE
ROBERTS 99/04/18

MATERIAL NO.
SEE CHART

SIZE
C

SCALE
2:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

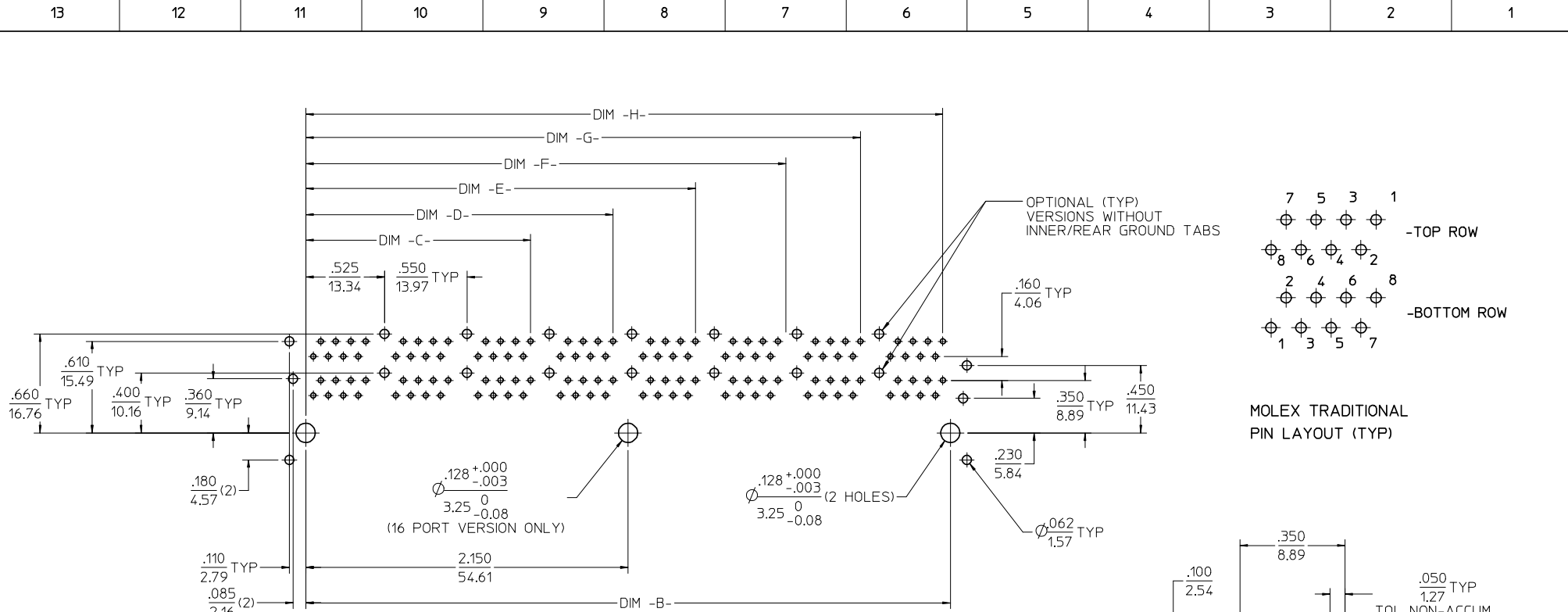
STACKED MODULAR JACK
CATEGORY 5

MOLEX MOLEX INCORPORATED

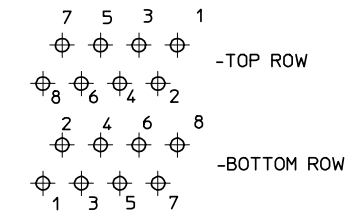
DOCUMENT NO.
SD-44520-001

SHEET NO.
1 OF 2

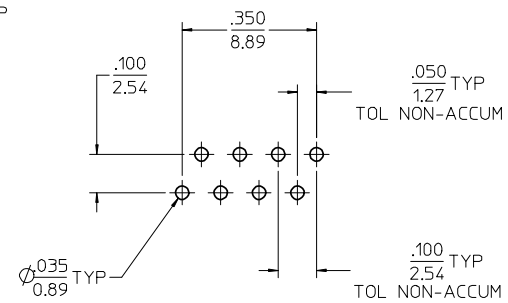
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INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



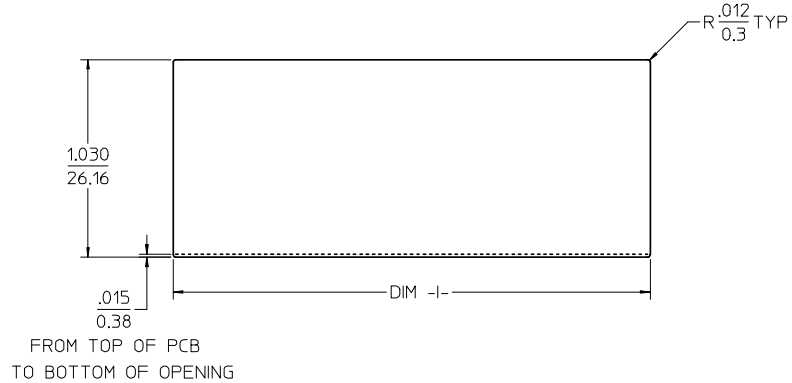
PC BOARD LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: .062/1.57
(16 PORT VERSION SHOWN)



MOLEX TRADITIONAL
PIN LAYOUT (TYP)



TYP HOLE LAYOUT
(EACH PORT)



RECOMMENDED PANEL
CUTOUT

NUMBER OF PORTS		DIM -B-	DIM -C-	DIM -D-	DIM -E-	DIM -F-	DIM -G-	DIM -H-	DIM -I-
8 (2 X 4)		2.100/53.34	1.500/38.10	2.050/52.07					2.360/59.94
12 (2 X 6)		3.200/81.28	1.500/38.10	2.050/52.07	2.600/66.04	3.150/80.01			3.460/87.88
16 (2 X 8)		4.300/109.22	1.500/38.10	2.050/52.07	2.600/66.04	3.150/80.01	3.700/93.98	4.250/107.95	4.560/115.82

EC NO: UCP2009-0280 DRWN:KLOSTER/ER 2008/08/01 CHKD:JBELL 2008/08/04 APPR:FSM/TH 2008/08/04 REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION		
		 =0  =0		mm	INCH	DRAWN BY	DATE	TITLE STACKED MODULAR JACK CATEGORY 5			
			4 PLACES	± ---	± ---	MARGULIS	99/04/16				
			3 PLACES	± ---	± .010	CHECKED BY	DATE				
			2 PLACES	± 0.25	± ---	ROBERTS	99/04/18				
			1 PLACE	± ---	± ---	APPROVED BY	DATE				
				ANGULAR ±1/2°		ROBERTS	99/04/18	 MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO. SEE CHART				DOCUMENT NO. SD-44520-001	SHEET NO. 2 OF 2
		SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							