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Part Number: [0424104312](#)
Status: **Active**
Description: Modular Jack, Vertical, 4/2

Documents:

3D Model	Product Specification PS-42410 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E107635

General

Product Family	Modular Jacks/Plugs
Series	42410
Component Type	PCB Jack
Magnetic	No
Performance Category	3
Power over Ethernet (PoE)	N/A
Product Name	N/A

Physical

Color - Resin	Black
Durability (mating cycles max)	500
Flammability	94V-0
Inverted / Top Latch	N/A
Lightpipes/LEDs	None
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Polyester
Orientation	Vertical (Top Entry)
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating 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	4/2
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
Grounding to Panel	None
Shielded	No
Voltage - Maximum	125V

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
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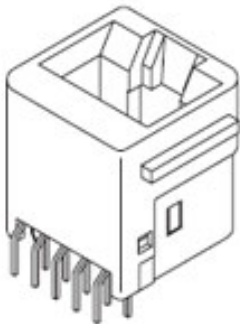


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**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
[42410Series](#)

Mates With
FCC 68 Plugs

Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-42410-492
Product Specification	PS-42410
Sales Drawing	SDA-42410-****
Test Summary	TS-42878-001

This document was generated on 06/07/2010

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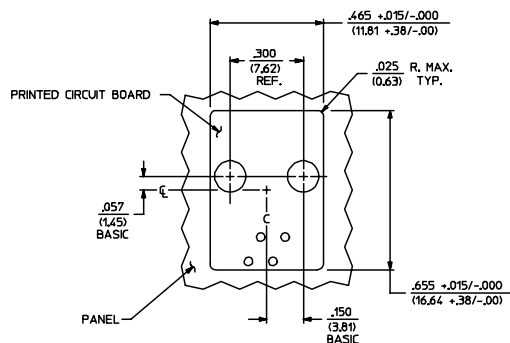
20	19	18	17	16	15	14	13	12	11	42410
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P.C. BOARD THICKNESS	DIM. "D" (MTG. PEGS)	DIM. "F" (P.C. TAILS)
0.062"	$\frac{.128}{(3.25)}$	$\frac{.120 + .015/- .025}{(3.05 + .38/- .63)}$
0.125"	$\frac{.191}{(4.85)}$	$\frac{.205 + .015/- .025}{(5.21 + .38/- .63)}$

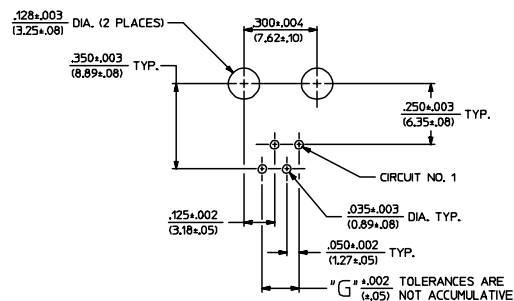
CONNECTOR SIZE	CIRCUIT SIZE	DIM "G"
4	4	<u>.150</u> (3.81)
4	2	<u>.050</u> (1.27)

NOTES:

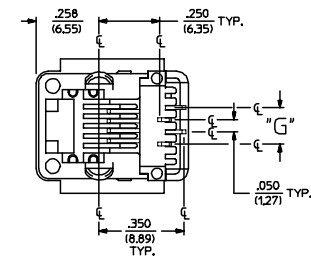
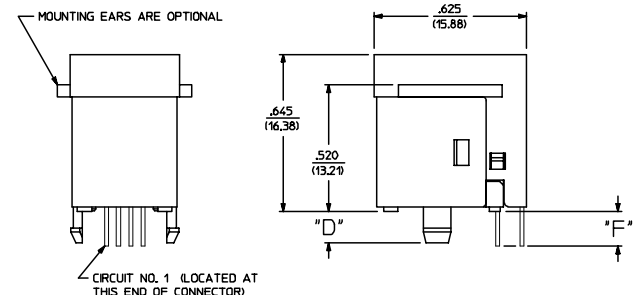
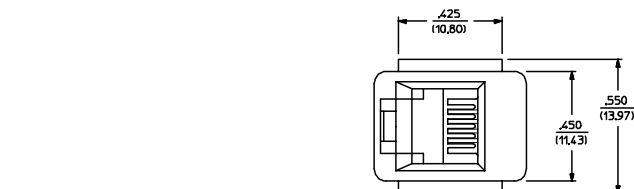
- 1) MATERIALS: HOUSING PARTS ARE MADE OF POLYESTER, RATED UL 94 V-0. COLOR IS BLACK. TERMINALS ARE .015(0.38) THICK PHOSPHOR BRONZE.
- 2) TERMINAL PLATING OPTIONS PER ES-88-***:
- A - SELECT GOLD IN CONTACT AREA: 50 MICRONS MIN.
 - *SELECT TIN IN PC TAIL AREA: 100 MICRONS MIN.
 - WITH OVERALL NICKEL UNDERPLATE: 50 MICRONS 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 TAIL.
- 3) THESE MODULAR JACKS MEET THE PERFORMANCE REQUIREMENTS OF MOLEX PRODUCT SPECIFICATION PS-42410.
- 4) CONNECTORS ARE TO BE PACKED IN THERMOFORMED TRAYS, PER PACKAGING SPECIFICATION PK-42410-492.
- 5) ALL JACKS ARE DESIGNED TO BE USED WITH .062(1/16) OR .125(3/16) THICK P.C. BOARDS.
- 6) ALL JACKS CONFORM TO AND ACCEPT PLUGS WHICH CONFORM TO FCC RULES AND REGULATIONS PART 68, SUBPART F, WHEN PLATED WITH 50 MICRONS GOLD.
- 7) ALL JACKS MUST BE CAPABLE OF FITTING INTO MOLEX GAGE G-42410 (CONNECTOR SIZE 4).
- 8) SEE SHEETS 2 & 4 FOR CONNECTOR SIZE 6.
- 9) SEE SHEETS 3 & 4 FOR CONNECTOR SIZE 8.
- 10) SEE SHEET 4 FOR ASSEMBLY ITEM NUMBERS.
- 11) THIS MODULAR JACK ASSEMBLY IS ALSO AVAILABLE IN A UL 94V-0 RATED, GLASS-FILLED NYLON, (SEE MOLEX DRAWING SDA-43576)
- 12) ENGRAVED NUMBERS ON HOUSING BODY ARE FOR MOLDING IDENTIFICATION ONLY.
- THEY ARE NOT INTENDED FOR ASSEMBLY IDENTIFICATION PURPOSES.
- 13) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.



PANEL CUT-OUT FOR CONNECTOR SIZE 4



P.C. BOARD LAYOUT FOR CONNECTOR SIZE 4



SIZE 4 MODULAR JACK LOADED WITH 4 TERMINALS SHOWN ABOVE
(SEE SHEET 4 FOR PART NUMBER AVAILABILITY)

LEAD FREE PLATING EC NO.: LCP2004-467 ZDPRING SCHMIDT 2004/03/03 CHIKUDA SCHMIDT 2004/03/03 APPRE SCHMIDT 2004/03/03	QUALITY SYMBOLS DESCRIPTION ▼.0 0.0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	REVISION ON CAD ONLY
		mm	INCH	DIMENSION STYLE IN/MM		TITLE	
		4 PLACES +---+ +---+		DRAWN BY	DATE	ASSEMBLY; VERTICAL MODULAR JACKS (CONNECTOR SIZE 4)	
		3 PLACES +---+ +---+		GLT	1990/10/12		
		2 PLACES +---+ +---+		CHECKED BY	DATE		
		1 PLACE +---+ +---+		BAP	1990/10/12	MOLEX INCORPORATED	
		ANGULAR ±1/2°		APPROVED BY	DATE	MATERIAL NO.	DOCUMENT NO.
		DRAFT WHERE APPLICABLE		RAS	1990/10/12	SEE SHEET 4 SDA-42410-****	
		MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
				1 OF 4			

20

19

18

17

16

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6

5

4

3

2

1

SIZE 4 VERTICAL MODJACK ASSEMBLIES

Y-NOT TOOLED

ASSEMBLY ITEM NUMBER

EXTERNAL CONNECTOR SIZE

NUMBER OF POSITIONS

P.C. BOARD THICKNESS

MOUNTING EARS OPTION

TERMINAL PLATING OPTION

42410-4168

4 POS. BODY

4

.062/(1.57)

YES

A

42410-4170

↑

↑

.062/(1.57)

NO

A

42410-4264

↓

↓

.125/(3.18)

YES

A

42410-4266

4 POS. BODY

4

.125/(3.18)

NO

A

42410-4312

4 POS. BODY

2

.062/(1.57)

YES

A

42410-4314

↑

↑

.062/(1.57)

NO

A

42410-4408

↓

↓

.125/(3.18)

YES

A

42410-4410

4 POS. BODY

2

.125/(3.18)

NO

A

SIZE 6 VERTICAL MODJACK ASSEMBLIES

Y-NOT TOOLED

ASSEMBLY ITEM NUMBER

EXTERNAL CONNECTOR SIZE

NUMBER OF POSITIONS

P.C. BOARD THICKNESS

MOUNTING EARS OPTION

TERMINAL PLATING OPTION

42410-6168

6 POS. BODY

6

.062/(1.57)

YES

A

42410-6170

↑

↑

.062/(1.57)

NO

A

42410-6264

↓

↓

.125/(3.18)

YES

A

42410-6266

6 POS. BODY

6

.125/(3.18)

NO

A

42410-6312

6 POS. BODY

4

.062/(1.57)

YES

A

42410-6314

↑

↑

.062/(1.57)

NO

A

42410-6320

↑

↑

.062/(1.57)

YES

B

42410-6408

↓

↓

.125/(3.18)

YES

A

42410-6410

6 POS. BODY

4

.125/(3.18)

NO

A

42410-6456

6 POS. BODY

2

.062/(1.57)

YES

A

42410-6458

↑

↑

.062/(1.57)

NO

A

42410-6552

↓

↓

.125/(3.18)

YES

A

42410-6554

6 POS. BODY

2

.125/(3.18)

NO

A

SIZE 8 VERTICAL MODJACK ASSEMBLIES

Y-NOT TOOLED

ASSEMBLY ITEM NUMBER

EXTERNAL CONNECTOR SIZE

NUMBER OF POSITIONS

P.C. BOARD THICKNESS

KEYING OPTION

MOUNTING EARS OPTION

TERMINAL PLATING OPTION

42410-8312

8 POS. BODY

8

.062/(1.57)

NO

YES

A

42410-8314

↑

↑

.062/(1.57)

NO

NO

A

42410-8360

↑

↑

.062/(1.57)

YES

YES

A

42410-8362

↑

↑

.062/(1.57)

YES

NO

A

42410-8504

.125/(3.18)

NO

YES

A

42410-8506

.125/(3.18)

NO

NO

A

42410-8552

↓

↓

.125/(3.18)

YES

YES

A

42410-8554

8 POS. BODY

8

.125/(3.18)

YES

NO

A

42410-8600

8 POS. BODY

6

.062/(1.57)

NO

YES

A

42410-8602

↑

↑

.062/(1.57)

NO

NO

A

42410-8648

↑

↑

.062/(1.57)

YES

YES

A

42410-8650

↑

↑

.062/(1.57)

YES

NO

A

42410-8792

.125/(3.18)

NO

YES

A

42410-8794

.125/(3.18)

NO

NO

A

42410-8840

↓

↓

.125/(3.18)

YES

YES

A

42410-8842

8 POS. BODY

6

.125/(3.18)

YES

NO

A

42410-8888

8 POS. BODY

4

.062/(1.57)

NO

YES

A

42410-8890

↑

↑

.062/(1.57)

NO

NO

A

42410-8936

.062/(1.57)

YES

YES

A

42410-8938

.062/(1.57)

YES

NO

A

42410-9080

.125/(3.18)

NO

YES

A

42410-9082

.125/(3.18)

NO

NO

A

42410-9128

↓

↓

.125/(3.18)

YES

YES

A

42410-9130

8 POS. BODY

4

.125/(3.18)

YES

NO

A

42410-9176

8 POS. BODY

2

.062/(1.57)

NO

YES

A

42410-9178

↑

↑

.062/(1.57)

NO

NO

A

42410-9224

↑

↑

.062/(1.57)

YES

YES

A

42410-9226

↑

↑

.062/(1.57)

YES

NO

A

42410-9368

.125/(3.18)

NO

YES

A

42410-9370

.125/(3.18)

NO

NO

A

42410-9416

↓

↓

.125/(3.18)

YES

YES

A

42410-9418

8 POS. BODY

2

.125/(3.18)

YES

NO

A

SEE SHEET ONE

EC NO: UCP2004-167

DRAWN: SCHMIDT 2004/03/03

CHECK: SCHMIDT 2004/03/03

APPROVE: SCHMIDT 2004/03/03

REV: N

QUALITY SYMBOLS

▽.0

▽.0

GENERAL TOLERANCES (UNLESS SPECIFIED)

4 PLACES ± ---

3 PLACES ± ---

2 PLACES ± ---

1 PLACE ± ---

mm

INCH

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE

MUST REMAIN WITHIN DIMENSIONS

SCALE ---

DESIGN UNITS INCH

DIMENSION STYLE IN/MM

DRAWN BY DATE

CHECKED BY DATE

BAP 1990/10/12

APPROVED BY DATE

RAS 1990/10/12

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

THIRD ANGLE PROJECTION

REVISE ON CAD ONLY

ASSEMBLY, VERTICAL MODULAR JACKS

MATERIAL NO. DOCUMENT NO. SHEET NO.

SEE CHART SDA-42410-**** 4 OF 4

MOLEX INCORPORATED

D

1b. frame: D.P.M.E.T

Rev. C 2002/05/05

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16

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7

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5

4

3

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1