

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0441440003

Status:

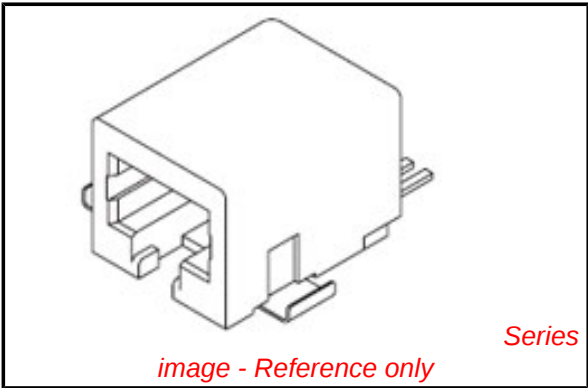
Active

Overview:

modular_plugs_jacks

Description:

Modular Jack, Right Angle, Low Profile, SMT, 8/8



Documents:

3D Model

Drawing (PDF)

Product Specification PS-43743-0001 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

UL

E107635

General

Product Family

Modular Jacks/Plugs

Series

44144

Comments

Flush Solder Tabs

Component Type

PCB Jack

Magnetic

No

Overview

modular_plugs_jacks

Performance Category

3

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

Phosphor Bronze

Material - Plating Mating

Gold

Material - Plating Termination

Tin

Material - Resin

High Temperature Thermoplastic

Orientation

Right Angle (Side Entry)

PCB Retention

Yes

Packaging Type

Embossed Tape on Reel

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

8/8

Surface Mount Compatible (SMC)

N/A

Temperature Range - Operating

-40°C to +80°C

Termination Interface: Style

Surface Mount

Wire/Cable Type

N/A

Electrical

Current - Maximum per Contact

1.5A

Shielded

No

Voltage - Maximum

125V

Solder Process Data

Duration at Max. Process Temperature (seconds)

30

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

44144Series

Mates With

FCC 68 Plugs

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

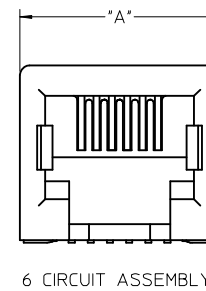
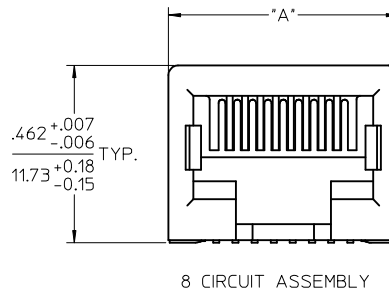
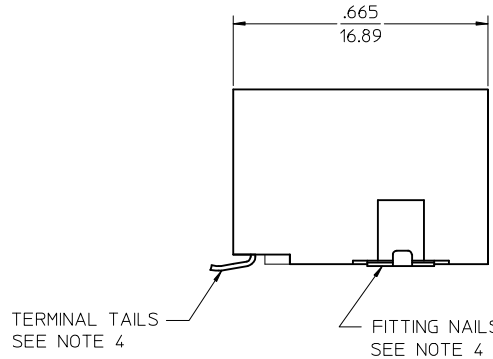
Material Info

Reference - Drawing Numbers

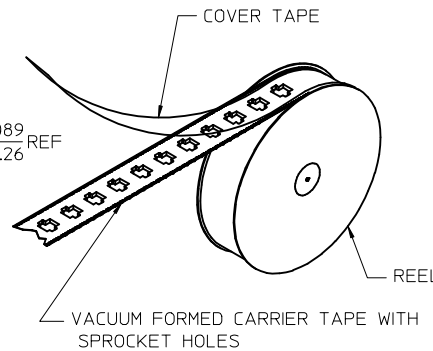
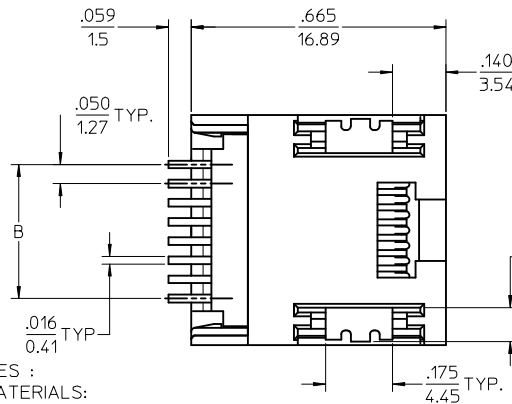
Packaging Specification	PK-70873-700*
Product Specification	PS-43743-0001
Sales Drawing	SD-44144-001

This document was generated on 06/07/2010

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HOUSING SIZE	CIRCUIT SIZE	DIM. A	DIM. B
6	6	.520 (13.21)	.250 (6.35)
6	4	.520 (13.21)	.150 (3.81)
6	2	.520 (13.21)	.050 (1.27)
8	8	.600 (15.24)	.350 (8.89)
8	6	.600 (15.24)	.250 (6.35)



TAPE AND REEL PACKAGING

NOTES :

1) MATERIALS:

HOUSING: NYLON, GLASS-FILLED,
UL94V-0, COLOR - SEE CHART
TERMINALS: PHOSPHOR BRONZE, .012/(0.30) THICK
FITTING NAILS: BRASS ALLOY, .010/(0.25) THICK

2) FINISH:

TERMINALS:

- (A) SELECT GOLD IN CONTACT AREA: .000050/(0.00127) MIN.,
*SELECT MATTE TIN IN PC TAIL AREA: .000100/(0.00254) MIN.,
WITH OVERALL NICKEL UNDERPLATE: .000050/(0.00127) MIN.
(B) SELECT GOLD IN CONTACT AREA: .000030/(0.00076) MIN.,
*SELECT MATTE TIN IN PC TAIL AREA: .000100/(0.00254) MIN.,
WITH OVERALL NICKEL UNDERPLATE: .000050/(0.00127) MIN.
(C) SELECT GOLD IN CONTACT AREA: .000015/(0.00038) MIN.,
*SELECT MATTE TIN IN PC TAIL AREA: .000100/(0.00254) MIN.,
WITH OVERALL NICKEL UNDERPLATE: .000050/(0.00127) MIN.

FITTING NAILS:

- *100 MICROINCHES MATTE TIN OVER 50 MICROINCHES NICKEL UNDERPLATE
*THE PRIMARY SHIPPING CARTON WILL BE LABELED "ELV AND
RoHS COMPLIANT" CARTONS WITHOUT THIS LABEL MAY CONTAIN
PRODUCT WITH TIN-LEAD IN THE PC TAIL AND/OR FITTING NAILS.

3) PRODUCT SPECIFICATION: PS-43743-001

4) COPLANARITY SPECIFICATION:

WITH THE MODULAR JACK SITTING ON A LEVEL SURFACE, THE
MAXIMUM GAP BETWEEN THE LEVEL SURFACE AND ALL TERMINAL
TAILS AND BOTH FITTING NAILS IS .006/(0.15).

5) FOR ASSEMBLIES HAVING VOIDED CIRCUITS, THE TAIL PORTION IS CUT AND REMOVED. THE MATING PORTION OF THE TERMINAL REMAINS INTACT.

6) CONVECTION SOLDERING TECHNOLOGY SHOULD BE USED WHEN GANGING MODULAR JACKS WITH INBOARD NAILS SIDE-BY-SIDE.

7) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

ASSEMBLY ITEM NO.	CONNECTOR SIZE	CIRCUIT SIZE	TERMINAL PLATING	TAPE & REEL PACKAGING No.	VOIDED CIRCUITS	HOUSING COLOR
44144-0001	8	4	A	PK-70873-7002	NA	BLACK
44144-0002	8	6	A	PK-70873-7002		
44144-0003	8	8	A	PK-70873-7002		
44144-0004	6	4	A	PK-70873-7001		
44144-0005	6	6	A	PK-70873-7001		
44144-0006	8	4	B	PK-70873-7002		
44144-0007	8	6	B	PK-70873-7002		
44144-0008	8	8	B	PK-70873-7002		
44144-0009	6	4	B	PK-70873-7001		
44144-0010	6	6	B	PK-70873-7001		
44144-0011	8	4	C	PK-70873-7002		
44144-0012	8	6	C	PK-70873-7002		
44144-0013	8	8	C	PK-70873-7002		
44144-0014	6	4	C	PK-70873-7001		
44144-0015	6	6	C	PK-70873-7001	NA	
44144-0016	8	4	C	PK-70873-7001	2,3,6,7	
44144-0017	6	2	A	PK-70873-7001	NA	
44144-0018	6	2	B	PK-70873-7001		
44144-0019	6	2	C	PK-70873-7001		
44144-0023	8	2	A	PK-70873-7002	NA	

2	G
1	H4
SH	REV

REVISED NOTES EC NO: UCP2009-1244 DRWN: JKLOSTEWER 2008/12/10 CHKD: JBELL 2008/12/10 APPR: FSMITH 2008/12/10 H4	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY MUELLER	DATE 98/03/13	TITLE 4, 6, 8 CIRCUIT SMT MODULAR JACK W/ FLUSH FITTING NAILS			
			4 PLACES	± ---	± ---	CHECKED BY	DATE				
			3 PLACES	± ---	± .010	ROBERTS	98/03/16				
			2 PLACES	± 0.25	± .015	APPROVED BY	DATE				
			1 PLACE	± 0.38	± ---	R EDGLEY	98/03/17				
			ANGULAR ±1/2°			MATERIAL NO.		DOCUMENT NO.		SHEET NO. 1 OF 2	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE CHART		SD-44144-001			
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

J

1

H

G

F

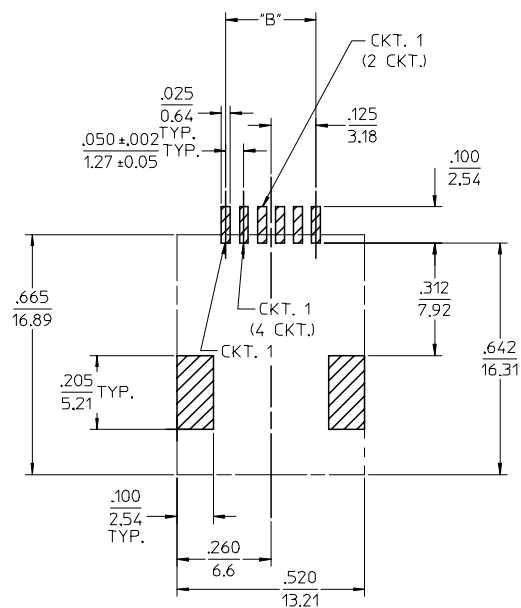
E

D

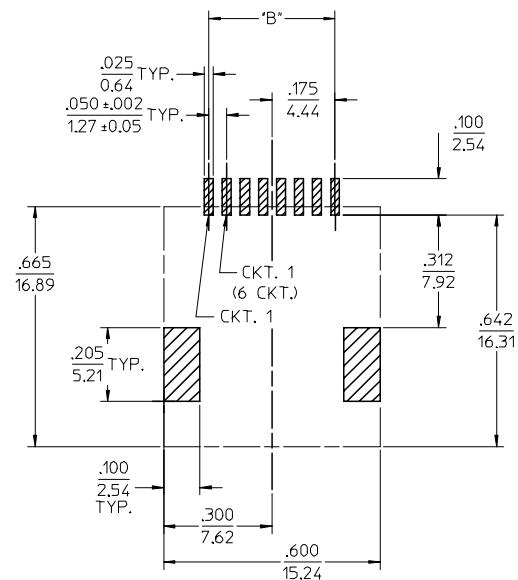
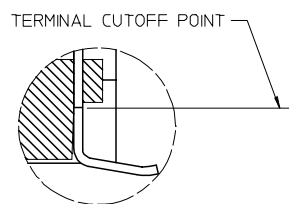
5

B

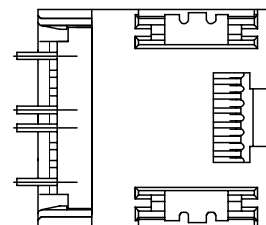
A



PCB LAYOUT FOR CONNECTOR SIZE 6
(COMPONENT SIDE OF BOARD)

PCB LAYOUT FOR CONNECTOR SIZE 8
(COMPONENT SIDE OF BOARD)

VIEW SHOWING TYPICAL TERMINAL
CUTOFF OF TAIL (SEE NOTE 5) FOR VOIDED CIRCUITS.



TYPICAL VIEW SHOWING VOIDED CIRCUIT
44144-0016 SHOWN

SEE SHEET ONE	EC NO: UCP2004-0798	QUALITY SYMBOLS DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± .005</td><td>± .0004</td></tr><tr><td>3 PLACES</td><td>± .003</td><td>± .0002</td></tr><tr><td>2 PLACES</td><td>± 0.025</td><td>± .0015</td></tr><tr><td>1 PLACE</td><td>± 0.38</td><td>± .015</td></tr><tr><td colspan="3">ANGULAR ± 1/2°</td></tr></table>		mm	INCH	4 PLACES	± .005	± .0004	3 PLACES	± .003	± .0002	2 PLACES	± 0.025	± .0015	1 PLACE	± 0.38	± .015	ANGULAR ± 1/2°			SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
				mm	INCH																					
	4 PLACES			± .005	± .0004																					
	3 PLACES			± .003	± .0002																					
	2 PLACES			± 0.025	± .0015																					
1 PLACE	± 0.38	± .015																								
ANGULAR ± 1/2°																										
DRN:LSCHMDT 2004/01/05	DIMENSION STYLE IN/MM	TITLE 4, 6, 8 CIRCUIT SMT MODULAR JACK W/ FLUSH FITTING NAILS	MOLEX INCORPORATED																							
CHKD:LSCHMDT 2004/01/05						DRAWN BY DSTAMBAU	DATE 00/04/07																			
APPR:FSMTH 2004/01/08						CHECKED BY BWIRKUS	DATE 00/04/07																			
						APPROVED BY R EDGLEY	DATE 00/04/07																			
			MATERIAL NO. SEE CHART	DOCUMENT NO. SD-44144-001	SHEET NO. 2 OF 2																					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																							

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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