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Part Number: **0441440003**

Status: **Active**

Overview: modular_plugs_jacks
Description: Modular Jack, Right Angle, Low Profile, SMT, 8/8

Series
image - Reference only

Documents:

3D Model	Product Specification PS-43743-0001 (PDF)
Drawing (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
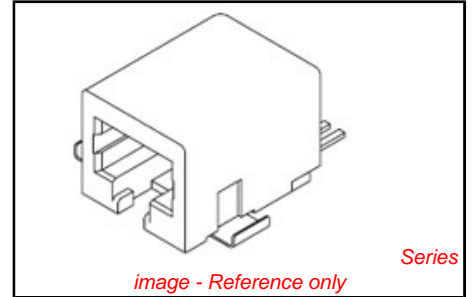
EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Halogen-Free

China RoHS
![China RoHS symbol]

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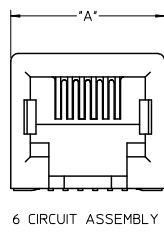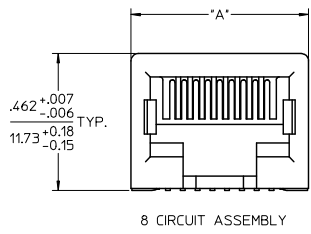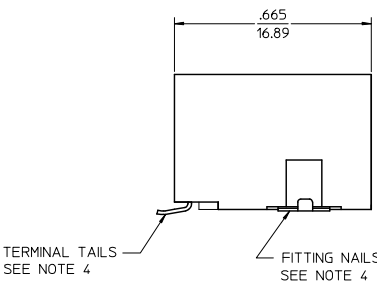
Reference - Drawing Numbers
Packaging Specification   PK-70873-700*
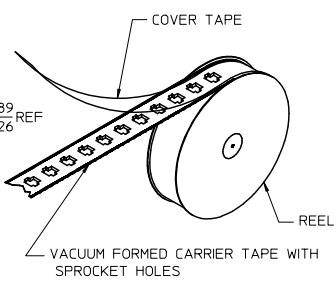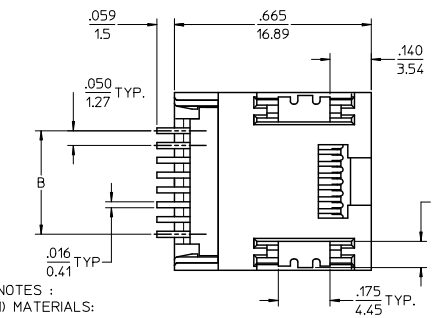Product Specification   PS-43743-0001
Sales Drawing   SD-44144-001

This document was generated on 06/07/2010
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

.665
16.89

.462 +.007 -.006 TYP.
11.73 +0.18 -0.15

"A"

8 CIRCUIT ASSEMBLY

"A"

6 CIRCUIT ASSEMBLY

TERMINAL TAILS
SEE NOTE 4

FITTING NAILS
SEE NOTE 4

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)

.059
1.5

.665
16.89

.140
3.54

.050 TYP.
1.27

B

.016 TYP.
0.41

.175 TYP.
4.45

.089 REF
2.26

COVER TAPE

REEL

VACUUM FORMED CARRIER TAPE WITH
SPROCKET HOLES

TAPE AND REEL PACKAGING

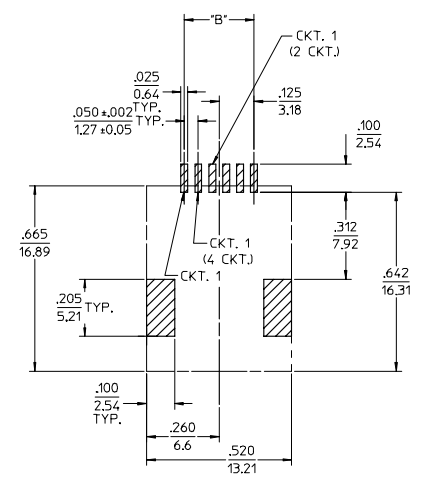| ASSEMBLY ITEM NO.	CONNECTOR SIZE	CIRCUIT SIZE	TERMINAL PLATING	TAPE & REEL PACKAGING No.	VOIDED CIRCUITS	HOUSING COLOR
44144-0001	8	4	A	PK-70873-7002	NA	
44144-0002	8	6	A	PK-70873-7002		
44144-0003	8	8	A	PK-70873-7002		
44144-0004	6	4	A	PK-70873-7001		
44144-0005	6	6	A	PK-70873-7001		
44144-0006	8	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		BLACK
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-70873-7002	2,3,6,7	
44144-0017	6	2	A	PK-70873-7001		
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	

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.

REVISED NOTES
EC NO: UCP2009-1244
DRWN: JKLOSTENEIER 2008/12/10
CHKD: JBELL 2008/12/10
APPR: FSMITH 2008/12/10
H4
REV
DESCRIPTION

QUALITY SYMBOLS
▼=○
▽=○

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .015
1 PLACE	± 0.38	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY MUELLER   DATE 98/03/13
CHECKED BY ROBERTS   DATE 98/03/16
APPROVED BY R EDGLEY   DATE 98/03/17

MATERIAL NO.
SEE CHART

SCALE 4:1

DESIGN UNITS INCH

THIRD ANGLE PROJECTION

TITLE
4, 6, 8 CIRCUIT SMT
MODULAR JACK W/ FLUSH
FITTING NAILS

molex MOLEX INCORPORATED

DOCUMENT NO.
SD-44144-001

SHEET NO.
1 OF 2

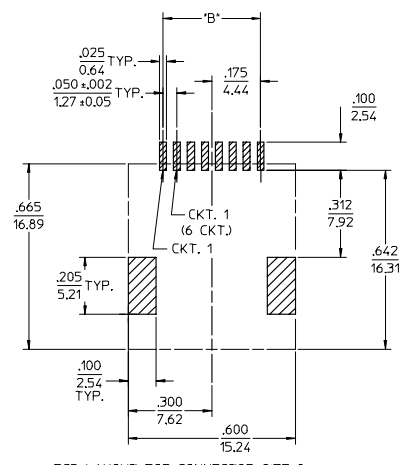| 2	G
1	H4
SH	REV

SIZE C
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INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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Rev. E 2006/04/15

44144

"B"

CKT. 1
(2 CKT.)
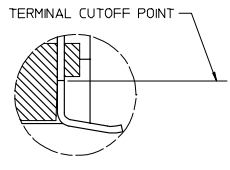
.025
0.64 TYP.

.050 ±.002 TYP.
1.27 ±0.05 TYP.

.125
3.18

.100
2.54

.665
16.89

CKT. 1
(4 CKT.)

CKT. 1

.312
7.92

.642
16.31

.205 TYP.
5.21

.100
2.54
TYP.

.260
6.6

.520
13.21

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

"B"

.025
0.64 TYP.

.050 ±.002 TYP.
1.27 ±0.05 TYP.

.175
4.44

.100
2.54

.665
16.89

CKT. 1
(6 CKT.)

CKT. 1

.312
7.92

.642
16.31

.205 TYP.
5.21

.100
2.54
TYP.

.300
7.62

.600
15.24

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

TERMINAL CUTOFF POINT

VIEW SHOWING TYPICAL TERMINAL
CUTOFF OF TAIL (SEE NOTE 5) FOR VOIDED CIRCUITS.
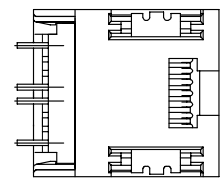
TYPICAL VIEW SHOWING VOIDED CIRCUIT
44144-0016 SHOWN

		SEE SHEET ONE	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS INCH	⊚ ◁ THIRD ANGLE PROJECTION	REVISE ON CAD ONLY

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .015
1 PLACE	± 0.38	± ---
ANGULAR ±1/2°		

QUALITY SYMBOLS
▼ . 0
▽ . 0

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

SEE SHEET ONE
EC NO. UCP2004-0798
DRWN:L.SCHMIDT 2004/01/05
CHKD:L.SCHMIDT 2004/01/05
APPR:F.SMITH 2004/01/08
G REV DESCRIPTION

SCALE 4:1
DESIGN UNITS INCH

DIMENSION STYLE
IN/MM

DRAWN BY
DSTAMBAU
DATE 00/04/07

CHECKED BY
BWIRKUS
DATE 00/04/07

APPROVED BY
R EDGLEY
DATE 00/04/07

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY

TITLE
4, 6, 8 CIRCUIT SMT
MODULAR JACK W/ FLUSH
FITTING NAILS

molex MOLEX INCORPORATED

MATERIAL NO.
SEE CHART

DOCUMENT NO.
SD-44144-001

SHEET NO.
2 OF 2

C

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Rev. C 2002/05/05