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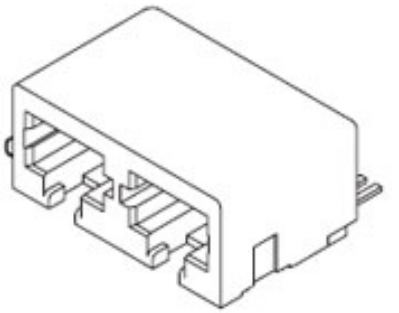
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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0441930002
Status: Active
Overview: modular_plugs_jacks
Description: Modular Jack, Right Angle, Low Profile, SMT, 8/6, 2 Ports

Documents:

3D Model
Drawing (PDF)
Product Specification PS-43743-0001 (PDF)
RoHS Certificate of Compliance (PDF)



Series image - Reference only

Agency Certification

CSA	LR19980
UL	E107635

General

Product Family	Modular Jacks/Plugs
Series	44193
Comments	Flush Solder Tabs
Component Type	PCB Jack
Magnetic	No
Overview	modular_plugs_jacks
Performance Category	3, 4
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
Plating min: Mating (µin)	50
Plating min: Mating (µm)	1.25
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Ports	2
Positions / Loaded Contacts	8/6
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

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

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
44193Series

Mates With
FCC 68 Plugs

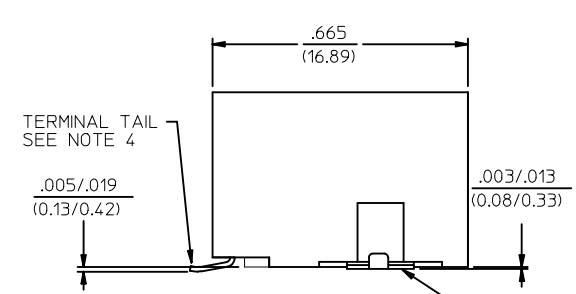
Material Info

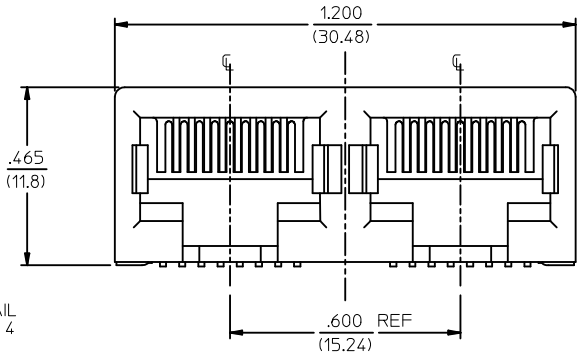
Reference - Drawing Numbers

Packaging Specification	PK-70873-700*
Product Specification	PS-43743-0001
Sales Drawing	SD-44193-001

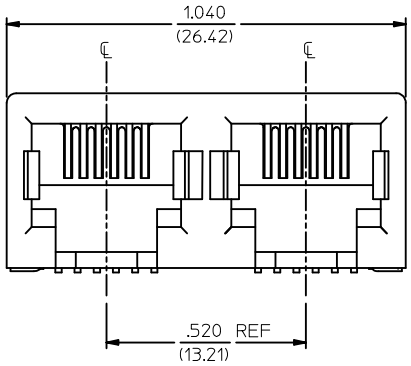
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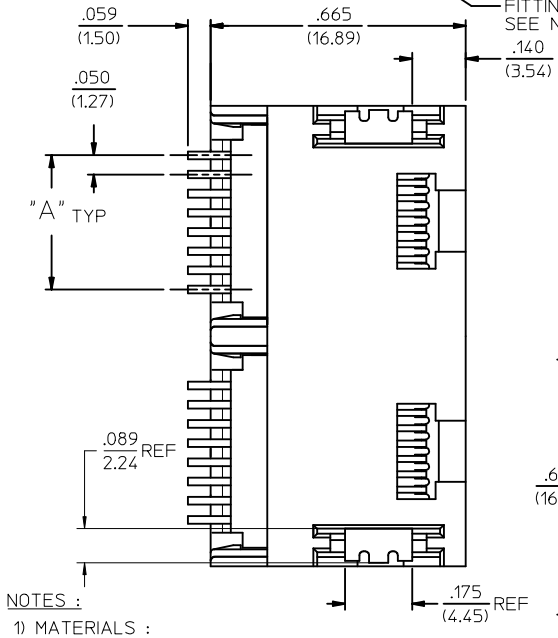


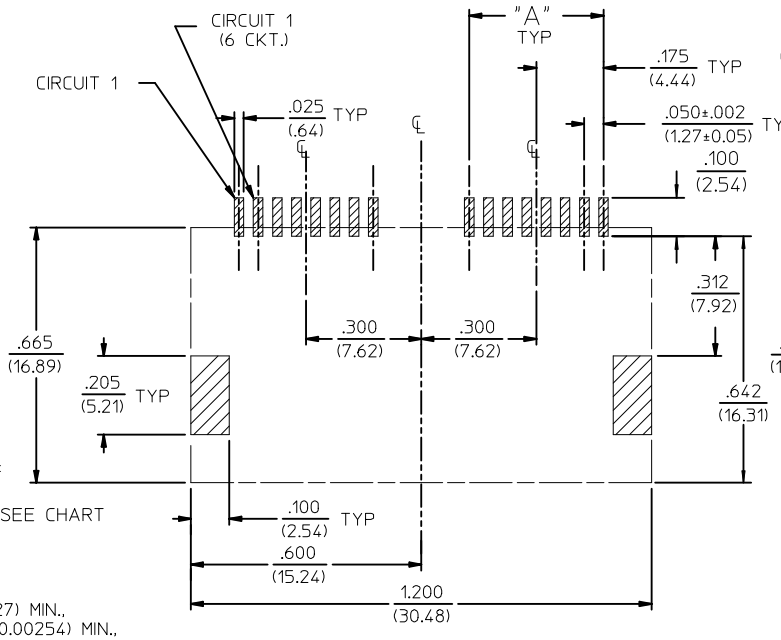


8 CIRCUIT ASSEMBLY

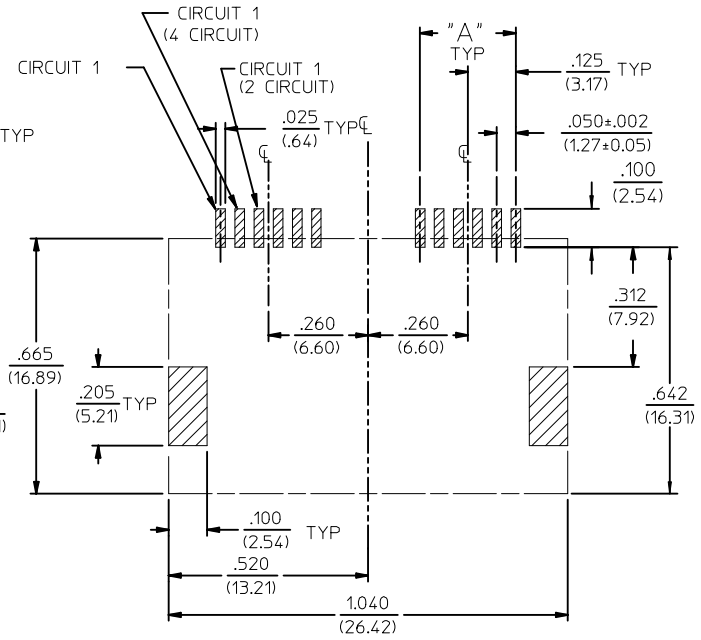


6 CIRCUIT ASSEMBLY





PC BOARD LAYOUT FOR
8 POSITION HOUSING
(COMPONENT SIDE OF BOARD)



PC BOARD LAYOUT FOR
6 POSITION HOUSING
(COMPONENT SIDE OF BOARD)

NOTES :

1) MATERIALS :
   HOUSING : NYLON, GLASS-FILLED, UL94V-0, COLOR - SEE CHART
   TERMINALS : PHOSPHOR BRONZE, .012/(0.30)
   FITTING NAILS : BRASS ALLOY, .010/(0.25)
2) FINISH :
   TERMINAL PLATING OPTIONS : (SEE TABLE)
   (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 AREA.
3) PRODUCT SPECIFICATION : PS-43743-001
4) COPLANARITY SPECIFICATIONS:
   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. VOIDED CIRCUITS MUST BE THE SAME FOR BOTH PORTS.
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				DESCRIPTION	REV
EC NO: UCP2009-1244					
DRWN: JKLOSTEMEIER	2008/12/10				
CHKD: JBELL	2008/12/10				
APPR: FSMITH	2008/12/10				
G2					

QUALITY SYMBOLS
▼=0
▽=0

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
SCALE	1:1
DESIGN UNITS	INCH
	THIRD ANGLE PROJECTION
DRAWN BY	MUELLER
DATE	98/06/11
CHECKED BY	ROBERTS
DATE	98/06/16
APPROVED BY	EDGLEY
DATE	98/06/17
MATERIAL NO.	SEE SHT 2
DOCUMENT NO.	SD-44193-001
SHEET NO.	1 OF 2
SIZE	C

SH	REV
2	G1
1	G2

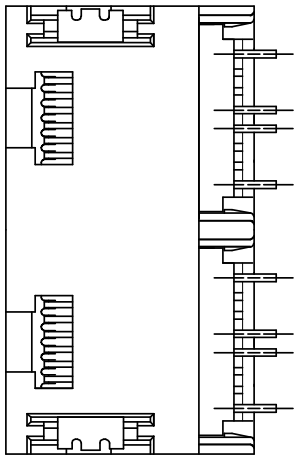
TITLE
4,6, & 8 CIRCUIT DUAL PORT SMT MODULAR JACK W/ FLUSH MOUNT NAILS

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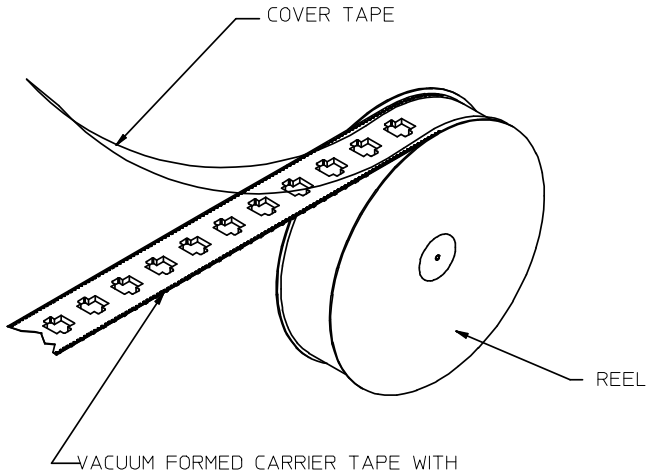
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ASSEMBLY ITEM NO.	CONNECTOR SIZE	CIRCUIT SIZE	TERMINAL PLATING	TAPE & REEL PACKAGING NO.	VOIDED CIRCUITS	HOUSING COLOR
44193-0001	8	4	A	PK-70873-7004	NA	
44193-0002	8	6	A	PK-70873-7004		
44193-0003	8	8	A	PK-70873-7004		
44193-0004	6	4	A	PK-70873-7003		
44193-0005	6	6	A	PK-70873-7003		
44193-0006	8	4	B	PK-70873-7004		
44193-0007	8	6	B	PK-70873-7004		
44193-0008	8	8	B	PK-70873-7004		
44193-0009	6	4	B	PK-70873-7003		BLACK
44193-0010	6	6	B	PK-70873-7003		
44193-0011	8	4	C	PK-70873-7004		
44193-0012	8	6	C	PK-70873-7004		
44193-0013	8	8	C	PK-70873-7004		
44193-0014	6	4	C	PK-70873-7003		
44193-0015	6	6	C	PK-70873-7003		
44193-0016	6	2	A	PK-70873-7003		
44193-0017	6	2	B	PK-70873-7003		
44193-0018	6	2	C	PK-70873-7003		

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



TYPICAL VIEW SHOWING VOIDED CIRCUIT
(CIRCUITS 2,3,6,7 SHOWN VOIDED)



TAPE AND REEL PACKAGING

OBSOLETE 441930019
EC NO: UCP2008-1189
DRWN: JBELL 2007/11/30
CH'KD: LSCHMIDT 2008/02/20
APPR: FSMITH 2008/03/04
DESCRIPTION
REV G1

QUALITY SYMBOLS
▼=0
▽=0

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
SCALE: 4:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: MUELLER DATE: 98/06/11
CHECKED BY: ROBERTS DATE: 98/06/16
APPROVED BY: EDGLEY DATE: 98/06/17

TITLE: 2 PORT SMT. JACK ASSY W/FLUSH MOUNT NAILS

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-44193-001
SHEET NO.: 2 OF 2
SIZE: C

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