

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0441930003](#)  
**Status:** **Active**  
**Overview:** [modular\\_plugs\\_jacks](#)  
**Description:** Modular Jack, Right Angle, Low Profile, SMT, 8/8, 2 Ports

**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 [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**

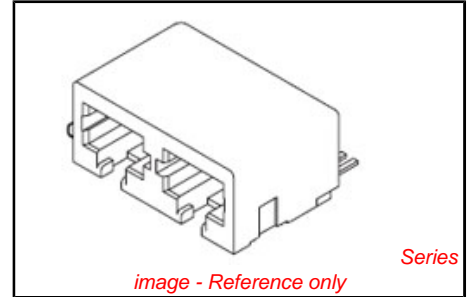
Color - Resin Black  
 Durability (mating cycles max) 500  
 Flammability 94V-0  
 Inverted / Top Latch No  
 Lightpipes/LEDs None  
 Material - Metal Phosphor Bronze  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Orientation 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 8/8  
 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  
 Lead-free Process Capability Reflow Capable (SMT only)  
 Max. Cycles at Max. Process Temperature 1



**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Not Halogen-Free**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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

Process Temperature max. C 235

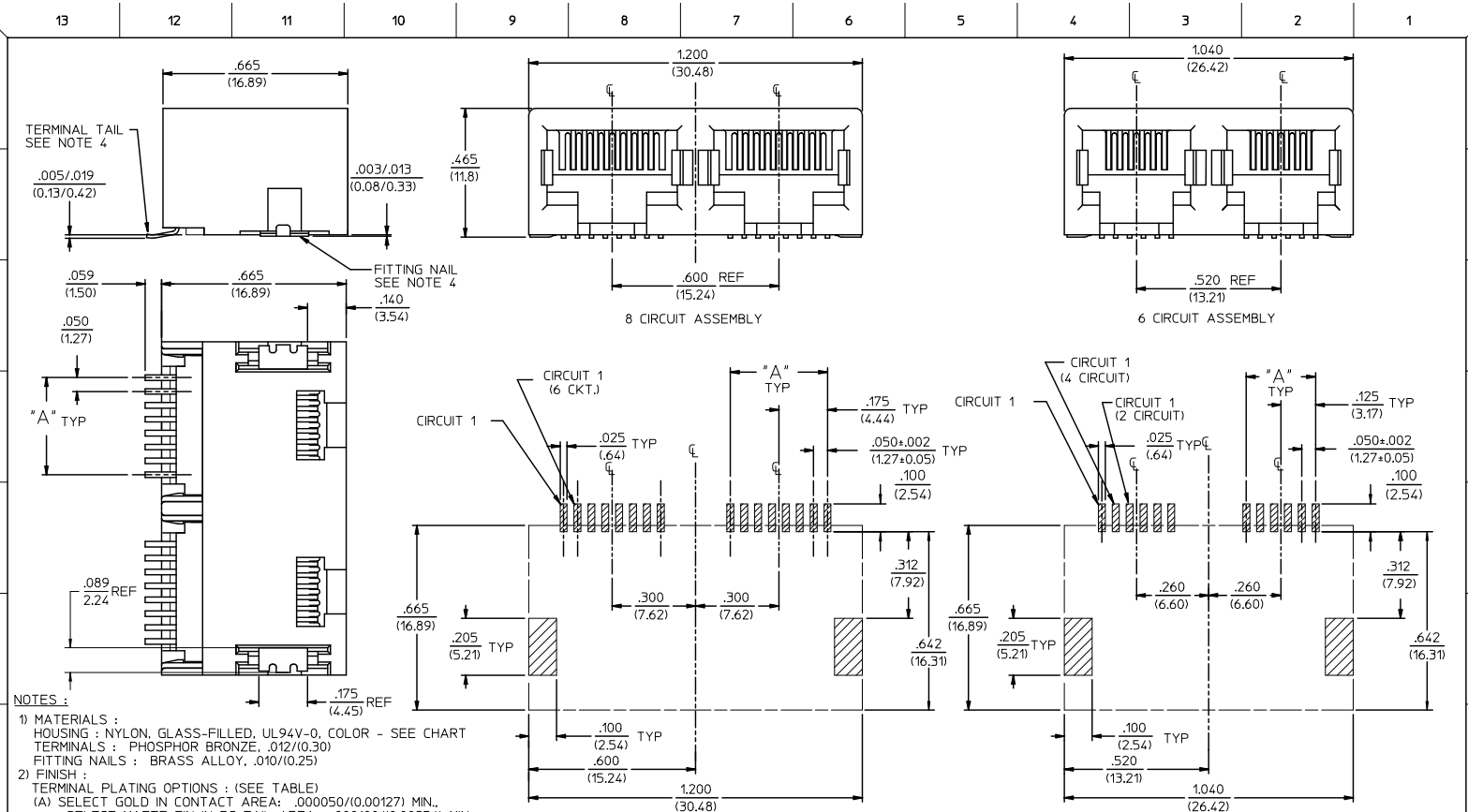
**Material Info**

**Reference - Drawing Numbers**

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

This document was generated on 06/07/2010

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**



- NOTES:
- MATERIALS :  
HOUSING : NYLON, GLASS-FILLED, UL94V-0, COLOR - SEE CHART  
TERMINALS : PHOSPHOR BRONZE, .012/(0.30)  
FITTING NAILS : BRASS ALLOY, .010/(0.25)
  - 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 MICRONS MATTE TIN OVER 50 MICRONS 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.
  - PRODUCT SPECIFICATION : PS-43743-001
  - 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).
  - 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.
  - CONVECTION SOLDERING TECHNOLOGY SHOULD BE USED WHEN GANGING MODULAR  
JACKS WITH INBOARD NAILS SIDE-BY-SIDE.
  - THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC  
SPECIFICATION PS-45499-002.

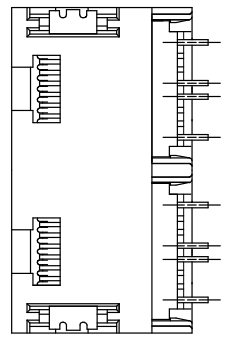
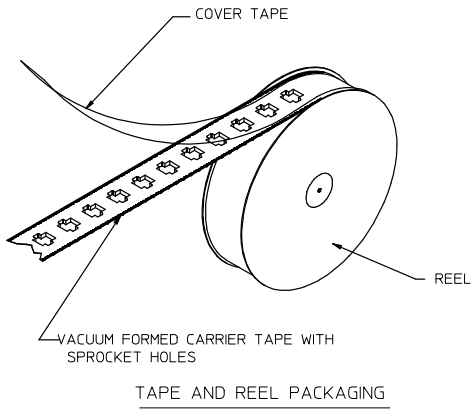
PC BOARD LAYOUT FOR  
8 POSITION HOUSING  
(COMPONENT SIDE OF BOARD)

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

REVISED NOTES EC NO. UCP2009-1244 DRAWN: JKLUSTMEIER 2008/12/10 CHKD: JRELL 2/08/09/02/10 APPR: PSMITH 2/08/09/02/10	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		mm	INCH	IN/MM	1:1	INCH		
		4 PLACES ±.010 ±.010	3 PLACES ±.010 ±.010	DRAWN BY	DATE	TITLE		
		2 PLACES ±.025 ±.015	1 PLACE ±.038 ±.015	MUELLER	98/06/11	4, 6, & 8 CIRCUIT DUAL PORT SMT MODULAR JACK W/ FLUSH MOUNT NAILS		
		ROBERTS	98/06/16	MOLEX INCORPORATED				
		EDGLEY	98/06/17	SD-44193-001			SHEET NO. 1 OF 2	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHT 2	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

	13	12	11	10	9	8	7	6	5	4	3	2	1
	ASSEMBLY ITEM NO.	CONNECTOR SIZE	CIRCUIT SIZE	TERMINAL PLATING	TAPE & REEL PACKAGING NO.	VOIDED CIRCUITS	HOUSING COLOR						
J	44193-0001	8	4	A	PK-70873-7004	NA	BLACK						
	44193-0002	8	6	A	PK-70873-7004								
	44193-0003	8	8	A	PK-70873-7004								
I	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								
H	44193-0008	8	8	B	PK-70873-7004								
	44193-0009	6	4	B	PK-70873-7003								
	44193-0010	6	6	B	PK-70873-7003								
	44193-0011	8	4	C	PK-70873-7004								
G	44193-0012	8	6	C	PK-70873-7004								
	44193-0013	8	8	C	PK-70873-7004								
	44193-0014	6	4	C	PK-70873-7003								
F	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)

<b>OBSELETE 441930019</b> IEC NO: UCP2008-1189 DRAWN: BELL 2007/11/30 CHKD: SCHMIDT 2008/02/20 APPR: SMITH 2008/03/04	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE IN/MM	SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
	$\nabla=0$ $\nabla=0$	4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .015 1 PLACE ± 0.38 ± --- ANGULAR ± 1/2°	DRAWN BY DATE MUELLER 98/06/11 CHECKED BY DATE ROBERTS 98/06/16 APPROVED BY DATE EDGLEY 98/06/17	TITLE	2 PORT SMT. JACK ASSY W/FLUSH MOUNT NAILS		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART	MATERIAL NO.	DOCUMENT NO.	MOLEX INCORPORATED	
						SD-44193-001	
					SHEET NO. 2 OF 2		

Ib\_frame\_C\_P\_ME\_T  
Rev. E 2006/04/15