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Part Number: **0438410016**
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Right Angle, Low Profile, SMT, 6/2, 2 Ports, Outboard Fitting Nail

Documents:

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

General

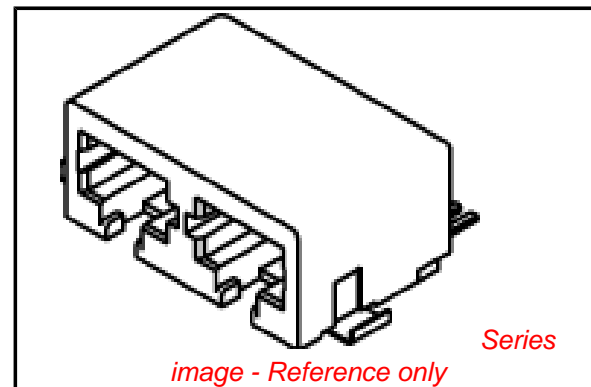
Product Family	Modular Jacks/Plugs
Series	43841
Comments	Outboard Fitting Nail
Component Type	PCB Jack
Magnetic	No
Overview	modular_plugs_jacks
Performance Category	3, 4
Power over Ethernet (PoE)	N/A
Product Name	RJ11

Physical

Boot Color	N/A
Color - Resin	Black
Durability (mating cycles max)	500
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 Locator	No
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.040 In
Pitch - Mating Interface (mm)	1.02 mm
Pitch - Term. Interface (in)	0.050 In
Pitch - Term. 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	2
Positions / Loaded Contacts	6/2
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +70°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No
Wire/Cable Type	N/A

Electrical

Current - Maximum per Contact	1.5A
Grounding to Panel	N/A
Shielded	No
Voltage - Maximum	150V AC (RMS)



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

[43841Series](#)

Mates With

[FCC 68 Plugs](#)

Solder Process Data

Lead-free Process Capability
Process Temperature max. C

Reflow Capable (SMT only)
235

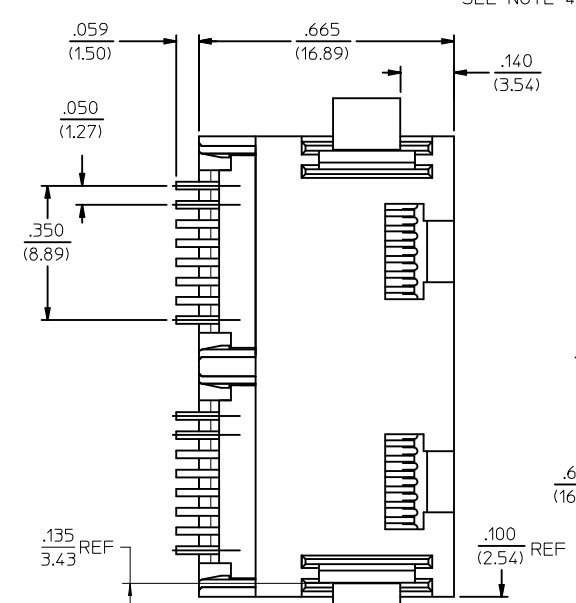
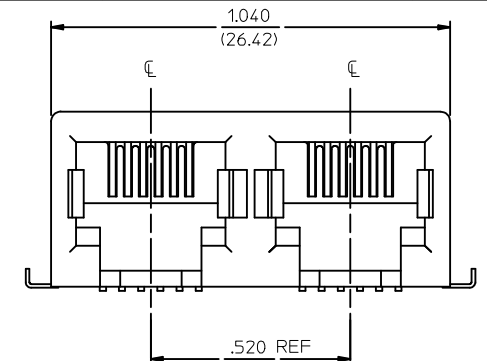
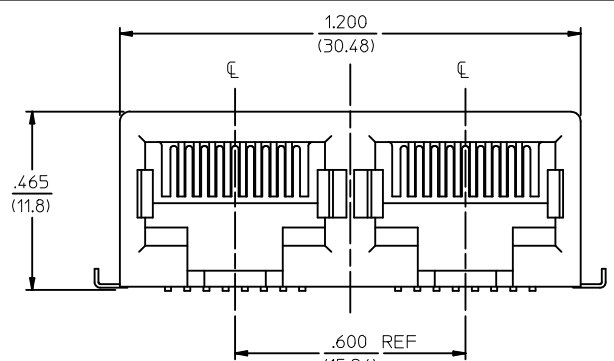
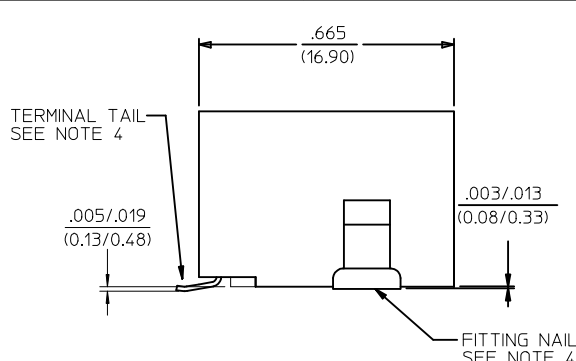
Material Info**Reference - Drawing Numbers**

Packaging Specification
Product Specification
Sales Drawing

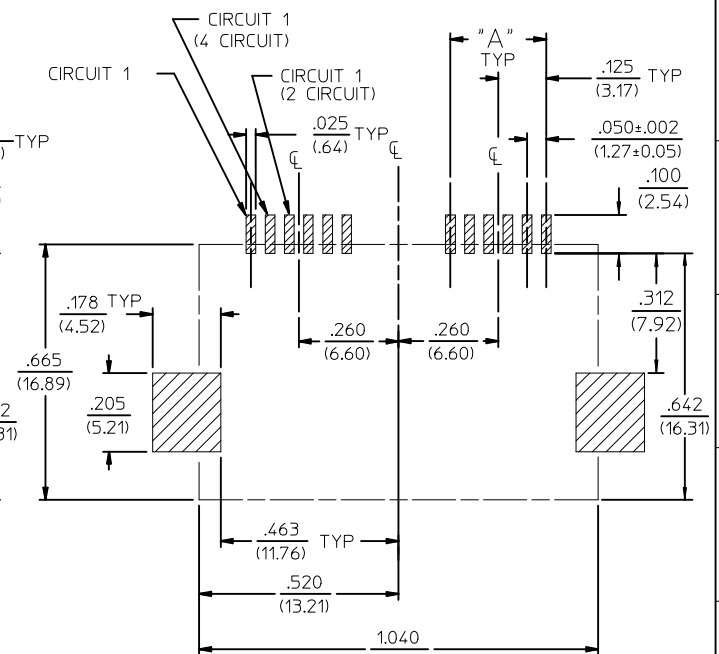
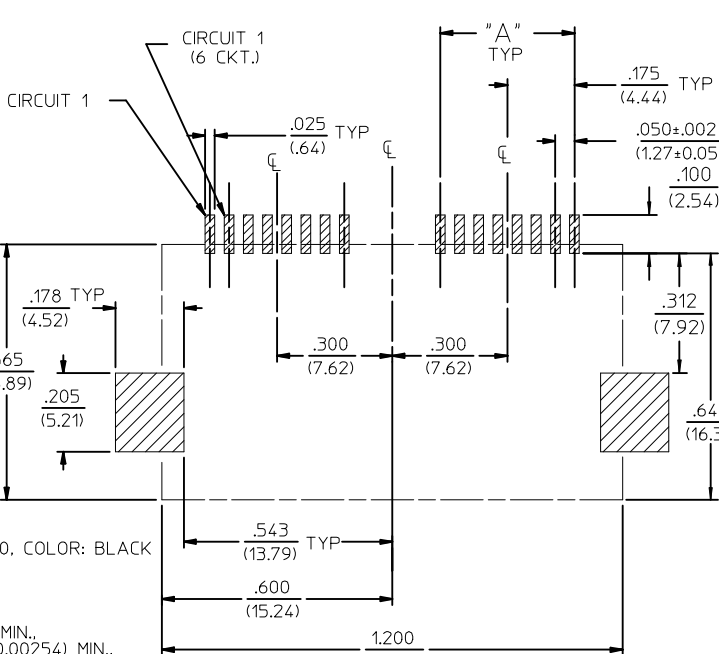
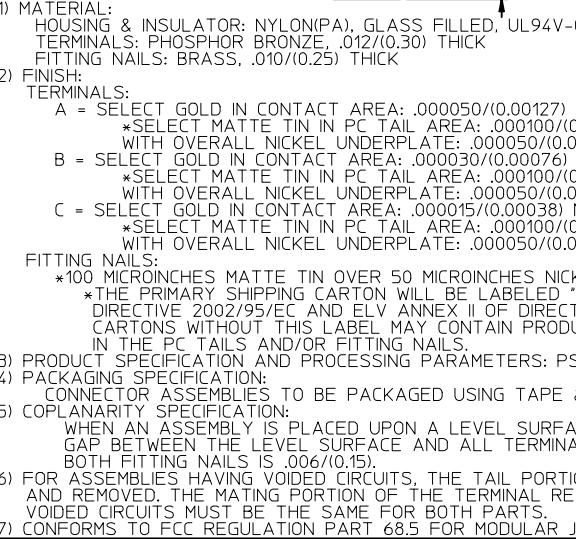
PK-70873-700*
PS-43743-0001
SD-43841-001

This document was generated on 06/07/2010

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NOTES:
 1) MATERIAL:
 HOUSING & INSULATOR: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK
 TERMINALS: PHOSPHOR BRONZE, .012/(0.30) THICK
 FITTING NAILS: BRASS, .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 "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 TAILS AND/OR FITTING NAILS.
 3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-43743-0001.
 4) PACKAGING SPECIFICATION:
 CONNECTOR ASSEMBLIES TO BE PACKAGED USING TAPE & REEL SYSTEM.
 5) COPLANARITY SPECIFICATION:
 WHEN AN ASSEMBLY IS PLACED UPON A LEVEL SURFACE, THE MAXIMUM
 GAP BETWEEN THE LEVEL SURFACE AND ALL TERMINAL TAILS AND
 BOTH FITTING NAILS IS .006/(0.15).
 6) 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 PARTS.
 7) CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.



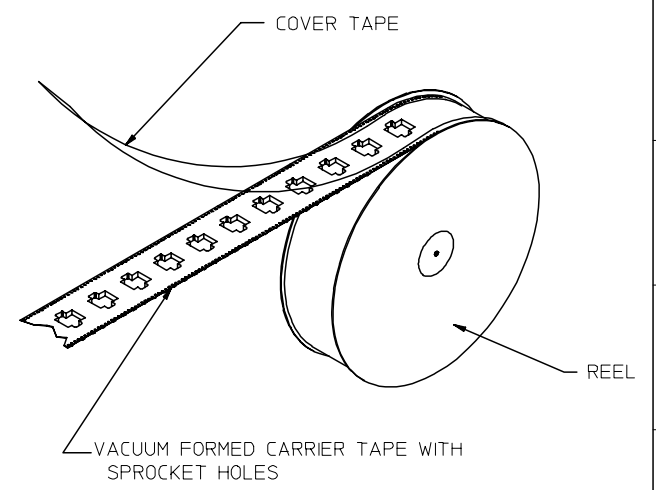
PC BOARD LAYOUT FOR
 8 POSITION HOUSING
 (COMPONENT SIDE OF BOARD)

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

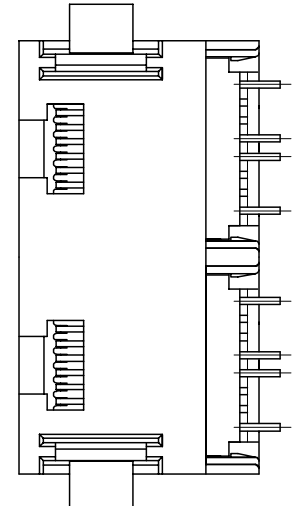
2	F
1	G2
SHT	REV

REVISED NOTES EC NO: WCP2009-12/44 DRAWN: JLOSTNER 2008/12/10 CHKD: JEBEL 2/00/08/12/10 APPR: FSBMTH 2/00/08/12/10	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES ± .010</td> <td>± .0004</td> </tr> <tr> <td>3 PLACES ± .010</td> <td>± .0004</td> </tr> <tr> <td>2 PLACES ± 0.25</td> <td>± .010</td> </tr> <tr> <td>1 PLACE ± .38</td> <td>± .015</td> </tr> </table> ANGULAR ±1/2°	mm	INCH	4 PLACES ± .010	± .0004	3 PLACES ± .010	± .0004	2 PLACES ± 0.25	± .010	1 PLACE ± .38	± .015	DIMENSION STYLE IN/MM	SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
	mm	INCH														
	4 PLACES ± .010	± .0004														
	3 PLACES ± .010	± .0004														
2 PLACES ± 0.25	± .010															
1 PLACE ± .38	± .015															
DRAWN BY: PEARSON DATE: 01/07/97 CHECKED BY: MUELLER DATE: 01/07/97 APPROVED BY: EDGLEY DATE: 01/07/97		TITLE 4, 6 & 8 CIRCUIT DUAL PORT SMT MODJACK		MATERIAL NO. SEE SHEET 2		SHEET NO. 1 OF 2										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MOLEX INCORPORATED		DOCUMENT NO. SD-43841-001		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
G2																

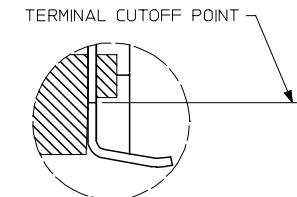
	13	12	11	10	9	8	7	6	5	4	3	2
	ASSEMBLY ITEM NO.	CONNECTOR SIZE	CIRCUIT SIZE	TERMINAL PLATING	TAPE & REEL PACKAGING NO.	VOIDED CIRCUITS						
J	43841-0001	8	4	A	PK-70873-7004	NA						
	43841-0002	8	6	A	PK-70873-7004	↑ ↓						
	43841-0003	8	8	A	PK-70873-7004							
I	43841-0004	6	4	A	PK-70873-7003							
	43841-0005	6	6	A	PK-70873-7003							
	43841-0006	8	4	B	PK-70873-7004							
H	43841-0007	8	6	B	PK-70873-7004							
	43841-0008	8	8	B	PK-70873-7004							
	43841-0009	6	4	B	PK-70873-7003							
	43841-0010	6	6	B	PK-70873-7003							
G	43841-0011	8	4	C	PK-70873-7004							
	43841-0012	8	6	C	PK-70873-7004							
	43841-0013	8	8	C	PK-70873-7004							
	43841-0014	6	4	C	PK-70873-7003							
F	43841-0015	6	6	C	PK-70873-7003							
	43841-0016	6	2	A	PK-70873-7003							
	43841-0017	6	2	B	PK-70873-7003							
	43841-0018	6	2	C	PK-70873-7003		NA					



TAPE AND REEL PACKAGING



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



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

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)

SEE SHEET ONE EC NO: UCP2004-0798 TDRW:LSCHMIDT 2004/01/05 CHKD:LSCHMIDT 2004/01/05 APPR:FSMITH 2004/01/08	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
	▽ = 0 ▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE IN/MM		TITLE 4, 6 & 8 CIRCUIT DUAL PORT SMT MODJACK	
			4 PLACES ± .010 ± .010 3 PLACES ± .010 ± .010 2 PLACES ± 0.25 ± .015 1 PLACE ± 0.38 ± .015		DRAWN BY PEARSON CHECKED BY PEARSON DATE 01/07/98	MATERIAL NO. SEE CHART DOCUMENT NO. SD-43841-001
			ANGULAR ±1/2°		MOLEX INCORPORATED	SHEET NO. 2 OF 2
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