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Part Number: [0428786216](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Vertical, Low Profile, 6/6, Panel Stops

Documents:

[3D Model](#) [Product Specification PS-42878 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

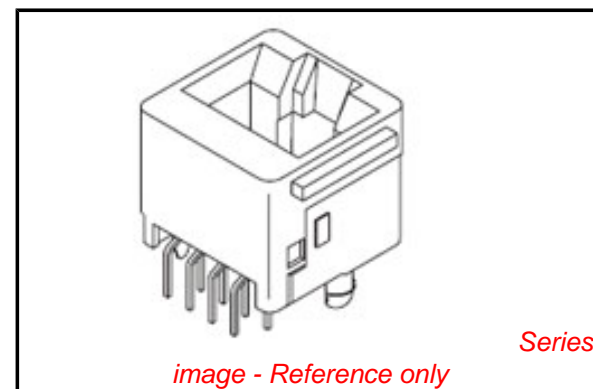
CSA LR19980
 UL E107635

General

Product Family Modular Jacks/Plugs
 Series [42878](#)
 Comments Flush Mount|Flangeless|2 PCB Thick
 Component Type PCB Jack
 Magnetic No
 Overview [modular_plugs_jacks](#)
 Performance Category 3
 Power over Ethernet (PoE) N/A
 Product Name RJ11

Physical

Boot Color N/A
 Color - Resin Black
 Durability (mating cycles max) 500
 Flammability 94V-0
 Inverted / Top Latch N/A
 Lightpipes/LEDs None
 Material - Metal Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin Polyester
 Orientation Vertical (Top Entry)
 PCB Locator Yes
 PCB Retention Yes
 PCB Thickness Recommended (in) 0.062 In
 PCB Thickness Recommended (mm) 1.57 mm
 Packaging Type Tray
 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 1
 Positions / Loaded Contacts 6/6
 Surface Mount Compatible (SMC) No
 Temperature Range - Operating -40°C to +85°C
 Termination Interface: Style Through Hole
 Waterproof / Dustproof No
 Wire/Cable Type N/A



EU RoHS

**ELV and RoHS
 Compliant**
**REACH SVHC
 Contains SVHC: No**
**Halogen-Free
 Status**

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

[42878Series](#)

Mates With

FCC 68 Plugs

Electrical

Current - Maximum per Contact	1.5A
Shielded	No
Voltage - Maximum	150V AC (RMS)

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235

Material Info**Reference - Drawing Numbers**

Packaging Specification	PK-42878-492
Product Specification	PS-42878
Sales Drawing	SDA-42878-****
Test Summary	TS-42878-001

This document was generated on 06/07/2010

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MODULAR JACK CHARACTERISTICS LEGEND

EXTERNAL CONNECTOR BODY DIMENSIONS: (SEE NOTES 8 AND 9)
 JACKS ARE AVAILABLE IN STANDARD 4, 6, AND 8 POSITION BODY SIZES

NUMBER OF CONTACT POSITIONS:
 CONNECTOR SIZE 4 CAN ACCOMMODATE 2 OR 4 TERMINALS,
 CONNECTOR SIZE 6 CAN ACCOMMODATE 2, 4, OR 6 TERMINALS,
 CONNECTOR SIZE 8 CAN ACCOMMODATE 2, 4, 6, 8, OR 10 TERMINALS

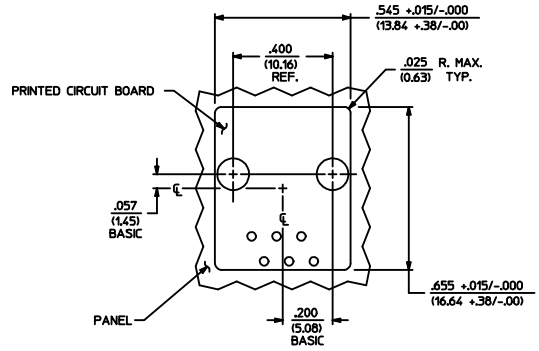
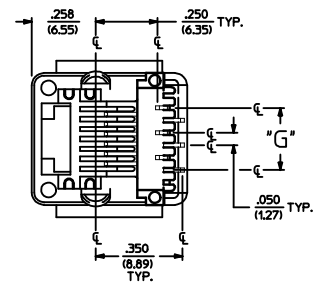
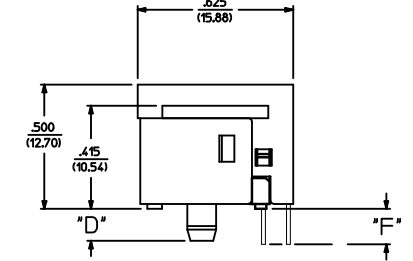
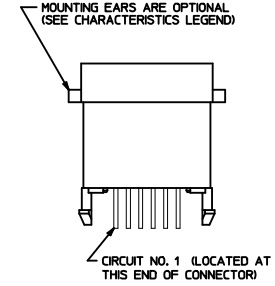
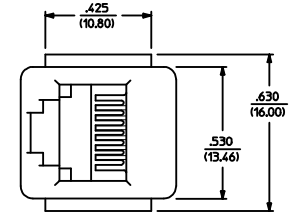
POLARIZATION OPTION:
 NO JACKS WITHOUT KEYING SLOT
 YES JACKS WITH KEYING SLOT (AVAILABLE ON CONNECTOR SIZE 8 ONLY)

MOUNTING EARS OPTION:
 YES JACKS WITH MOUNTING EARS
 NO JACKS WITHOUT MOUNTING EARS

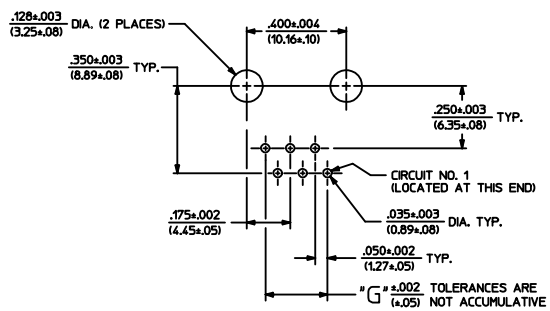
- NOTES:
- 1) MATERIALS: HOUSING- POLYESTER, GLASS FILLED, UL94V-0, COLOR - BLACK
 TERMINALS- PHOSPHOR BRONZE ALLOY, .015/(0.38) THICK.
 - 2) TERMINAL PLATING:
 *SELECT GOLD IN CONTACT AREA: 50 MICRONS MIN.
 *SELECT TIN IN PC TAIL AREA: 100 MICRONS MIN.
 WITH OVERALL NICKEL UNDERPLATE: 50 MICRONS MIN.
 *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 TAIL.
 - 3) THESE MODULAR JACKS MEET THE PERFORMANCE REQUIREMENTS OF MOLEX PRODUCT SPECIFICATION PS-42878.
 - 4) CONNECTORS ARE SHIPPED IN THERMOFORMED TRAYS, PER PACKAGING SPECIFICATION PK-42878-492.
 - 5) ALL JACKS ARE DESIGNED TO BE USED WITH .062/(1.57) OR .125/(3.18) THICK P.C. BOARDS.
 - 6) ALL JACKS CONFORM TO AND ACCEPT PLUGS WHICH CONFORM TO FCC RULES AND REGULATIONS PART 68, SUBPART F.
 - 7) ALL JACKS MUST BE CAPABLE OF FITTING INTO MOLEX GAGE G-42410 (CONNECTOR SIZE 6).
 - 8) SEE SHEETS 1 & 4 FOR CONNECTOR SIZE 4.
 - 9) SEE SHEETS 3 & 5 FOR CONNECTOR SIZE 8.
 - 10) ENGRAVED NUMBERS ON HOUSING BODY ARE FOR MOLDING IDENTIFICATION ONLY. THEY ARE NOT INTENDED FOR ASSEMBLY IDENTIFICATION PURPOSES.
 - 11) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002 WITH THE EXCEPTION OF THE *SINK WHICH CONFORMS TO CLASS C REQUIREMENTS.

P. C. BOARD THICKNESS	DIM. "D" (MTG. PEGS)	DIM. "F" (P.C. TAILS)
.062/(1.57)	.128 (3.25)	.120 \pm .015/-0.025 (3.05 \pm .38/- .63)
.125/(3.18)	.191 (4.85)	.205 \pm .015/-0.025 (5.21 \pm .38/- .63)

CONNECTOR SIZE	CIRCUIT SIZE	DIM. "G"
6	6	.250 (6.35)
6	4	.150 (3.81)
6	2	.050 (1.27)



PANEL CUT-OUT FOR CONNECTOR SIZE 6



P.C. BOARD LAYOUT FOR CONNECTOR SIZE 6

SIZE 6 MODULAR JACK LOADED WITH 6 TERMINALS SHOWN ABOVE

ADD COSMETIC SPEC EC NO. UCP2009-1267 DRAWN: JLOS/TEMLER 2008/12/02 CHKD: BEL 2008/12/02 APPR: FSW/TH 2008/12/02 H2 REV	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES \pm .10 \pm .010 3 PLACES \pm .15 \pm .015 2 PLACES \pm 0.25 \pm .025 1 PLACE \pm .50 \pm .050 ANGULAR \pm 1/2°	DIMENSION STYLE IN/MM SCALE 1:1 DESIGN UNITS INCH THIRD ANGLE PROJECTION	DRAWN BY DATE BAP 1992/04/02 CHECKED BY DATE BAP 1992/04/02 APPROVED BY DATE RAS 1992/04/02	TITLE ASSEMBLY, VERTICAL LOW PROFILE MODULAR JACKS (CONNECTOR SIZE 6) MOLEX INCORPORATED	MATERIAL NO. SEE SHEET 4 DOCUMENT NO. SDA-42878-**** SHEET NO. 2 OF 5
	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					
	SIZE D					

M	19	18	17	16	15	14	13	12	11	10	42878		9	8	7	6	5	4	3	2	1
											X=NOT TOOLED										
L	PART CHARACTERISTICS					X=NOT TOOLED	PART CHARACTERISTICS					CHARACTERISTICS LEGEND									
	ASSEMBLY NUMBER	EXTERNAL CONNECTOR SIZE	NUMBER OF POSITIONS	P. C. BOARD THICKNESS	MOUNTING EARS OPTION		ASSEMBLY ITEM NUMBER	EXTERNAL CONNECTOR SIZE	NUMBER OF POSITIONS	P. C. BOARD THICKNESS	MOUNTING EARS OPTION	EXTERNAL CONNECTOR BODY DIMENSIONS: AVAILABLE IN 4, 6, AND 8 POSITION BODY	NUMBER OF CONTACT POSITIONS: CONNECTOR SIZE 4 ACCOMMODATES 2, OR 4 TERMINALS; CONNECTOR SIZE 6 ACCOMMODATES 2, 4, OR 6 TERMINALS; CONNECTOR SIZE 8 ACCOMMODATES 2, 4, 6, 8, OR 10 TERMINALS	POLARIZATION OPTION (AVAILABLE ON CONNECTOR SIZE 8 ONLY) *NO* - WITHOUT KEYING SLOT *YES* - WITH KEYING SLOT	MOUNTING EARS OPTION: *YES* - PART WITH MOUNTING EARS *NO* - PART WITHOUT MOUNTING EARS						
	42878-4216	4 POS. BODY	4	.062	YES	42878-6216	6 POS. BODY	6	.062	YES	(SEE SHEET 1 & 2 FOR PART DESCRIPTIONS AND DIMENSIONS)										
	42878-4218	↑	4	.062	NO	42878-6218	↑	6	.062	NO											
	42878-4264		4	.125	YES	42878-6264		6	.125	YES											
	42878-4266		4	.125	NO	42878-6266		6	.125	NO											
	42878-4360		2	.062	YES	42878-6360		4	.062	YES											
	42878-4362		2	.062	NO	42878-6362		4	.062	NO											
	42878-4408	↓	2	.125	YES	42878-6408		4	.125	YES											
	42878-4410	4 POS. BODY	2	.125	NO	42878-6410		4	.125	NO											
						42878-6504		2	.062	YES											
						42878-6506		2	.062	NO											
						42878-6552	↓	2	.125	YES											
						42878-6554	6 POS. BODY	2	.125	NO											

SEE SHEET ONE EC NO: UCP2004-667 DRAWN:LSCHMIDT 2004/03/03 CHKD:LSCHMIDT 2004/03/03 APPR:FSMITH 2004/03/03	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE	DESIGN UNITS	<input checked="" type="checkbox"/> THIRD ANGLE PROJECTION <input type="checkbox"/> REVERSE	REVISE ON CAD ONLY ASSEMBLY, VERTICAL LOW PROFILE MODULAR JACKS (CONNECTOR SIZE 4 & 6)																														
	<input checked="" type="checkbox"/> 0 <input checked="" type="checkbox"/> -0	<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .01</td> <td>± .0005</td> </tr> <tr> <td>3 PLACES</td> <td>± .02</td> <td>± .001</td> </tr> <tr> <td>2 PLACES</td> <td>± .03</td> <td>± .0015</td> </tr> <tr> <td>1 PLACE</td> <td>± .04</td> <td>± .002</td> </tr> </table>		mm	INCH			4 PLACES	± .01	± .0005	3 PLACES	± .02	± .001	2 PLACES	± .03	± .0015	1 PLACE	± .04	± .002	<table border="1"> <tr> <th colspan="2">DIMENSION STYLE</th> </tr> <tr> <td>IN/MM</td> <td>INCH</td> </tr> </table>	DIMENSION STYLE		IN/MM	INCH	<table border="1"> <tr> <td>DRAWN BY</td> <td>DATE</td> </tr> <tr> <td>BAP</td> <td>1992/04/09</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> </tr> <tr> <td>BAP</td> <td>1992/04/09</td> </tr> <tr> <td>APPROVED BY</td> <td>DATE</td> </tr> <tr> <td>RAS</td> <td>1992/04/09</td> </tr> </table>	DRAWN BY	DATE	BAP	1992/04/09	CHECKED BY	DATE	BAP	1992/04/09	APPROVED BY	DATE	RAS	1992/04/09
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