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Part Number: [0714390864](#)
Status: **Active**
Description: 1.00mm (.039") Pitch Mezzanine IEEE 1386 Receptacle, Surface Mount, Dual Row, Vertical Stacking, Embossed Tape on Reel, 0.76µm (30µ") Gold (Au), 64 Circuits Pick and Place Cap

Documents:

[3D Model](#) [Product Specification PS-71436-9999 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Receptacles
 Series [71439](#)
 Application Board-to-Board
 Comments Plugs
 Product Name Mezzanine

Physical

Circuits (Loaded) 64
 Color - Resin Natural
 Flammability 94V-0
 Glow-Wire Compliant No
 Lock to Mating Part Yes
 Mated Height (in) 0.315 In, 0.354 In, 0.394 In
 Mated Height (mm) 10.00 mm, 8.00 mm, 9.00 mm
 Material - Metal Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 Number of Rows 2
 Orientation Vertical
 PCB Locator Yes
 PCB Retention None
 Packaging Type Embossed Tape on Reel
 Pitch - Mating Interface (in) 0.039 In
 Pitch - Mating Interface (mm) 1.00 mm
 Plating min: Mating (µin) 30.4
 Plating min: Mating (µm) 0.76
 Plating min: Termination (µin) 76.4
 Plating min: Termination (µm) 1.91
 Polarized to PCB No
 Robotic Placement Pick and Place Cap
 Surface Mount Compatible (SMC) N/A
 Temperature Range - Operating -55°C to +85°C
 Termination Interface: Style Surface Mount

Electrical

Current - Maximum per Contact 1A
 Voltage - Maximum 100V

Solder Process Data

Duration at Max. Process Temperature (seconds) 40
 Lead-free Process Capability Reflow Capable (SMT only)

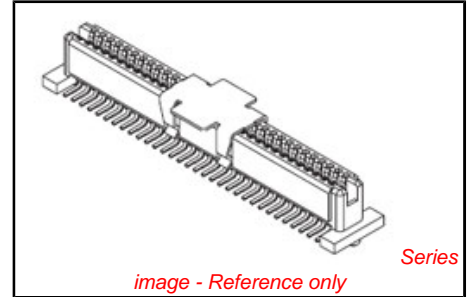


image - Reference only

EU RoHS

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

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

[71439Series](#)

Mates With

[714360](#) for Stack Height 8.00mm (.315"),
[714361](#) for Stack Height 9.00mm (.354"),
[714362](#) for Stack Height 10.00mm (.394")

Max. Cycles at Max. Process Temperature 3
Process Temperature max. C 260

Material Info

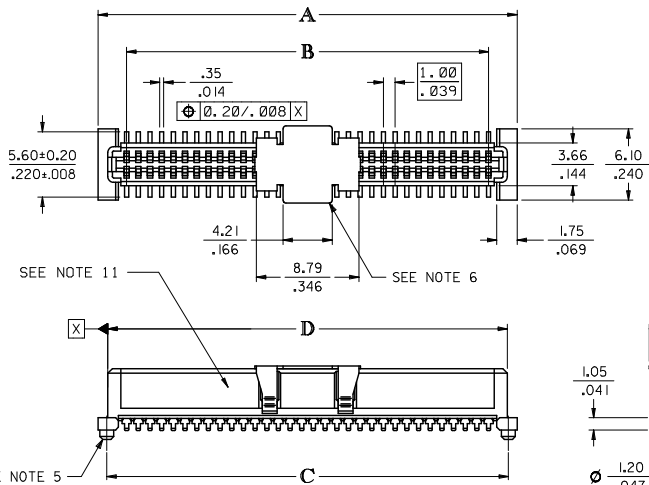
Reference - Drawing Numbers

Product Specification PS-71436-9999, RPS-71436-002, RPS-71436-003
Sales Drawing SDA-71439-0***

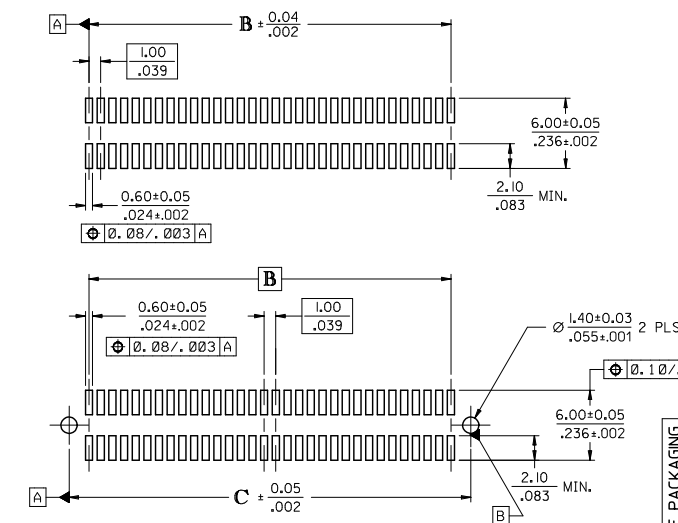
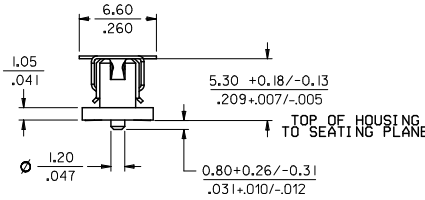
This document was generated on 03/31/2010

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13 12 11 10 9 8 7 6 5 4 3 2 1



CIRCUIT SIZE	DIM. A	DIM. B	DIM. C	DIM. D
20	13.90	9.00	12.40	12.22
	.547	.354	.488	.481
30	18.90	14.00	17.40	17.22
	.744	.551	.685	.678
40	23.90	19.00	22.40	22.22
	.941	.748	.882	.875
50	28.90	24.00	27.40	27.22
	1.138	.945	1.079	1.072
60	33.90	29.00	32.40	32.22
	1.335	1.142	1.276	1.269
64	35.90	31.00	34.40	34.22
	1.413	1.220	1.354	1.347
70	38.90	34.00	37.40	37.22
	1.531	1.339	1.472	1.465
80	43.90	39.00	42.40	42.22
	1.728	1.535	1.669	1.662
84	45.90	41.00	44.40	44.22
	1.807	1.614	1.748	1.741
90	48.90	44.00	47.40	47.22
	1.925	1.732	1.866	1.859
100	53.90	49.00	52.40	52.22
	2.122	1.929	2.063	2.056
110	58.90	54.00	57.40	57.22
	2.319	2.126	2.260	2.253
120	63.90	59.00	62.40	62.22
	2.516	2.323	2.457	2.450



- NOTES:**
- HOUSING MATERIAL: GLASS FILLED LIQUID CRYSTAL POLYMER (LCP); UL 94V-0; SEE SHEET 2 FOR COLOR.
 - TERMINAL MATERIAL: PHOSPHOR BRONZE; 0.205/.0080 THICK
 - VACUUM CAP MATERIAL: STAINLESS STEEL; 0.255/.0100 THICK
 - CONTACT PLATING FINISH: REFER TO CHART ON SHEET 2
 - THIS PART, WHEN MATED WITH MOLEX 1.0mm PLUG CONNECTOR SERIES 71439, CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-71436-9999. REFER TO CHART ON SHEET 2 FOR MATED STACK HEIGHTS FOR THIS RECEPTACLE.
 - PACKAGING SPECIFICATIONS: REFER TO CHART ON SHEET 2.
 - PEGS ARE OPTIONAL. REFER TO CHART ON SHEET 2.
 - VACUUM PICK & PLACE CAP IS OPTIONAL. REFER TO CHART ON SHEET 2.
 - THIS PART CONFORMS TO EIA STANDARD 700 AAAB FOR 1.0mm TWO-PART CONNECTORS FOR USE WITH PARALLEL PRINTED BOARDS.
 - COPLANARITY OF SMT TAILS; 0.10 MM/.004 INCH MAXIMUM
 - 64-CIRCUIT RECEPTACLE ASSEMBLY WITH PEGS AND VACUUM CAP SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 - INCH DIMENSIONS SHOWN FOR REFERENCE ONLY.
 - ASSEMBLY TO HAVE DATE CODE: XX XX WEEK YEAR

RECOMMENDED PCB LAYOUT (WITH AND WITHOUT PEGS)
 RECOMMENDED PCB THICKNESS: 1.00 ± 0.10 / .039 ± .004

CHG TUBE PACKAGING EC NO. UCP2009-1286 DRAWN BY: 2008/12/10 CHKD BY: CHKOSMART APPR: SHILLER 2008/12/10	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		4 PLACES ± .13 ± .01	3 PLACES ± .13 ± .01	2 PLACES ± .13 ± .01	1 PLACE ± 0.25 ± .01	DRAWN BY	DATE	TITLE	
		ANGULAR ± 1/2°				REED	1995/04/03	ASSY MFG. 1.0MM BOARD TO BOARD RECEPT CONNECTOR	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				CHECKED BY	DATE	5.30/.209 HIGH	
				APPROVED BY BIXLER 1995/04/03		MOLEX INCORPORATED		SHEET NO. 1 OF 2	

12 11 10 9 8 7 6 5 4 3 2 1

WHITE (NATURAL) MATERIAL

PART NUMBER	CIRCUIT SIZE	CONTACT PLATING SEE NOTE BELOW CHARTS	PEGS	PICK & PLACE CAP	PACKAGING SPEC. NUMBER	PACKAGING TYPE
71439-0164	64	30 GOLD	YES	NO	PK-70873-013	TUBE
71439-0264	64	50 GOLD	NO	YES	PK-70873-063	TAPE & REEL
71439-0364	64	30 GOLD	YES	YES	PK-70873-014	TUBE
71439-0464	64	30 GOLD	YES	YES	PK-70873-063	TAPE & REEL
71439-0564	64	30 GOLD	NO	NO	PK-70873-015	TUBE
71439-0764	64	30 GOLD	NO	YES	PK-70873-017	TUBE
71439-0864	64	30 GOLD	NO	YES	PK-70873-063	TAPE & REEL
71439-0664	64	50 GOLD	YES	NO	PK-70873-013	TUBE
71439-0064	64	50 GOLD	NO	NO	PK-70873-015	TUBE

BLACK MATERIAL

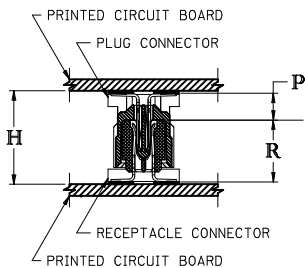
PART NUMBER	CIRCUIT SIZE	CONTACT PLATING SEE NOTE BELOW CHARTS	PEGS	PICK & PLACE CAP	PACKAGING SPEC. NUMBER	PACKAGING TYPE
71439-0964	64	30 GOLD	NO	YES	PK-70873-063	TAPE & REEL

CONTACT PLATING:

- 30 GOLD - 0.76 MICROMETER/30 MICROINCH MINIMUM GOLD IN CONTACT AREA AND 1.91 MICROMETER/75 MICROINCH MINIMUM TIN IN SOLDER TAIL AREA. NICKEL UNDERPLATE OVER ENTIRE TERMINAL.
- 50 GOLD - 1.27 MICROMETER/50 MICROINCH MINIMUM GOLD IN CONTACT AREA AND 1.91 MICROMETER/75 MICROINCH MINIMUM TIN IN SOLDER TAIL AREA. NICKEL UNDERPLATE OVER ENTIRE TERMINAL.

RECOMMENDED PLUG/RECEPTACLE COMBINATION FOR MATED STACK HEIGHT PER EIA STANDARD 700 AAAB

MATED STACK HEIGHT	RECEPTACLE HEIGHT	RECEPTACLE SERIES NO.	PLUG HEIGHT	PLUG SERIES NO.
8.00/.315	5.30/.209	71439-0***	2.30/.090	71436-0***
9.00/.354	5.30/.209	71439-0***	3.30/.130	71436-1***
10.00/.394	5.30/.209	71439-0***	4.30/.169	71436-2***



$$\begin{aligned} & \text{PLUG STACK HEIGHT} \\ & + \text{RECEPTACLE STACK HEIGHT} \\ & + 0.40/.016 \text{ (SOLDER PASTE ALLOWANCE)} \\ & = \text{MATED STACK HEIGHT} \end{aligned}$$

P = PLUG STACK HEIGHT
 R = RECEPTACLE STACK HEIGHT
 H = MATED STACK HEIGHT

CHG. TUBE PACKAGING EC. NO. UCP2009-1266 DRAWN BY: BARKER 2008/12/10 CHKD BY: SMART 2008/12/10 APPR: SPILLER 2008/12/10	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE INCH	DESIGN UNITS INCH	THIRD ANGLE PROJECTION																													
	$\nabla=0$ $\nabla=0$	<table border="1"> <tr><th></th><th>mm</th><th>INCH</th></tr> <tr><td>4 PLACES</td><td>±.005</td><td>±.0005</td></tr> <tr><td>3 PLACES</td><td>±.005</td><td>±.0005</td></tr> <tr><td>2 PLACES</td><td>±.013</td><td>±.001</td></tr> <tr><td>1 PLACE</td><td>±.025</td><td>±.001</td></tr> </table>		mm	INCH	4 PLACES	±.005	±.0005	3 PLACES	±.005	±.0005	2 PLACES	±.013	±.001	1 PLACE	±.025	±.001	<table border="1"> <tr><th>mm</th><th>INCH</th></tr> <tr><td>4 PLACES</td><td>±.005</td><td>±.0005</td></tr> <tr><td>3 PLACES</td><td>±.005</td><td>±.0005</td></tr> <tr><td>2 PLACES</td><td>±.013</td><td>±.001</td></tr> <tr><td>1 PLACE</td><td>±.025</td><td>±.001</td></tr> </table>	mm	INCH	4 PLACES	±.005	±.0005	3 PLACES	±.005	±.0005	2 PLACES	±.013	±.001	1 PLACE	±.025	±.001	DRAWN BY REED DATE 1995/04/03 CHECKED BY REED DATE 1995/04/03 APPROVED BY BIXLER DATE 1995/04/03	TITLE ASSY MFG. 1.0MM BOARD TO BOARD RECEPT CONNECTOR 5.30/209 HIGH MOLEX INCORPORATED			
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THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	SIZE C																																				