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Part Number: [0714390164](#)
Status: **Active**
Description: 1.00mm (.039") Pitch Mezzanine IEEE 1386 Receptacle, Surface Mount, Dual Row, Vertical Stacking, Tube, 0.76µm (30µ") Gold (Au), 64 Circuits

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
MolexKits Yes
Product Name Mezzanine

Physical

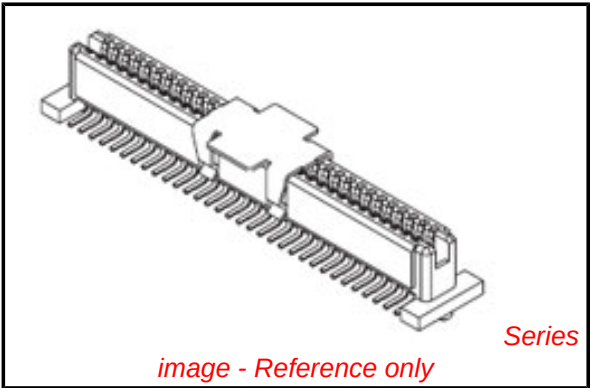
Circuits (Loaded) 64
Color - Resin Natural
Flammability 94V-0
Glow-Wire Compliant No
Lock to Mating Part Yes
Mated Height (in) 0.315 In, 0.354 In, 0.394 In
Mated Height (mm) 10.00 mm, 8.00 mm, 9.00 mm
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 2
Orientation Vertical
PCB Locator Yes
PCB Retention None
Packaging Type Tube
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
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)
Max. Cycles at Max. Process Temperature 3



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



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")

Process Temperature max. C

260

Material Info

Reference - Drawing Numbers

Packaging Specification

Product Specification

Sales Drawing

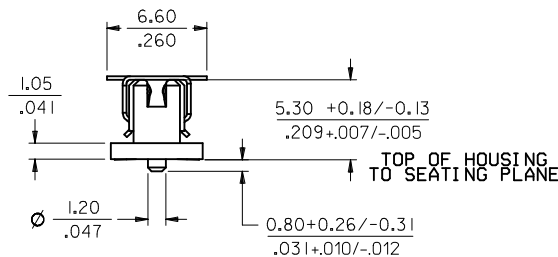
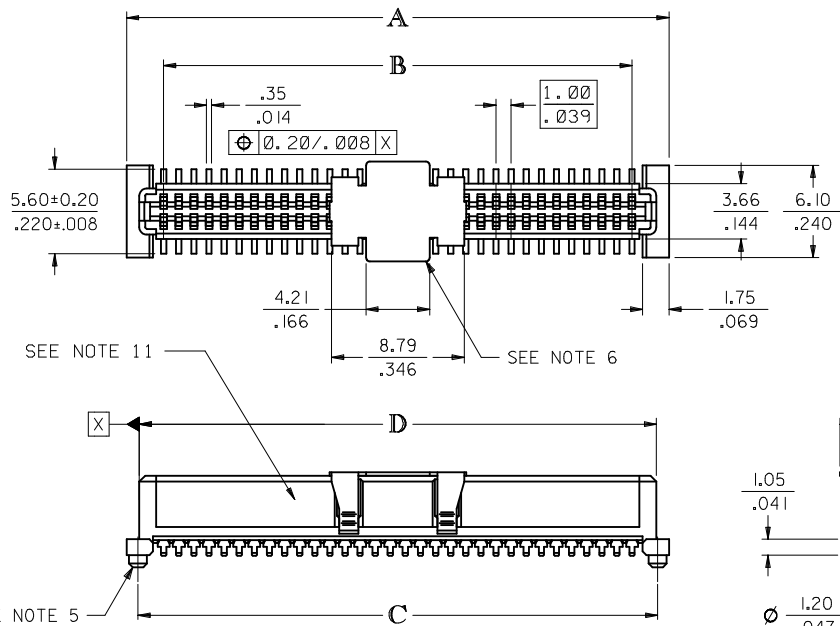
PK-70873-013, PK-70873-063

PS-71436-9999, RPS-71436-002, RPS-71436-003

SDA-71439-0***

This document was generated on 06/08/2010

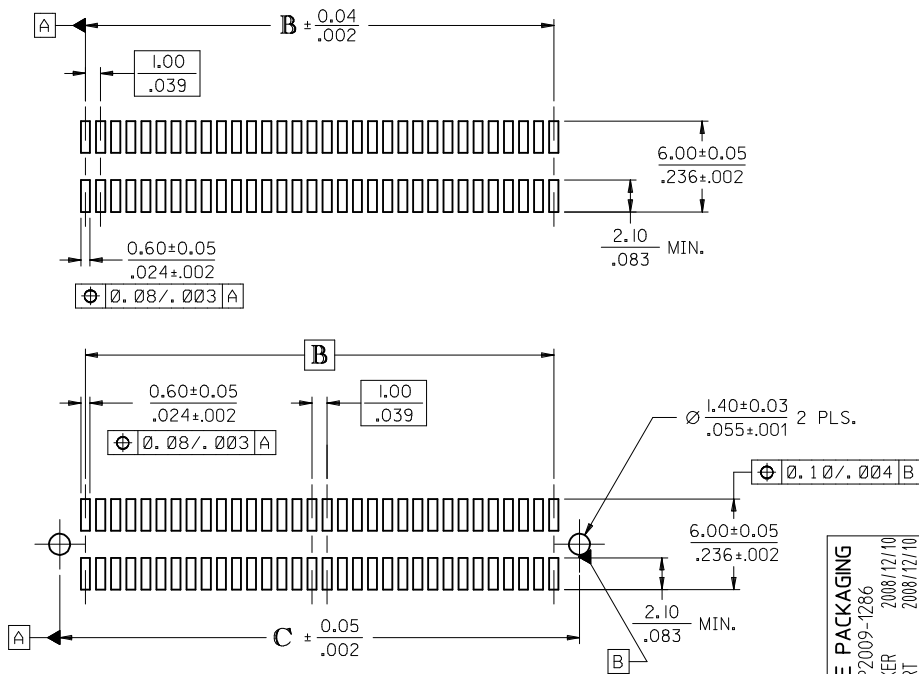
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CIRCUIT SIZE	DIM. A	DIM. B	DIM. C	DIM. D
20	13.90 .547	9.00 .354	12.40 .488	12.22 .481
30	18.90 .744	14.00 .551	17.40 .685	17.22 .678
40	23.90 .941	19.00 .748	22.40 .882	22.22 .875
50	28.90 1.138	24.00 .945	27.40 1.079	27.22 1.072
60	33.90 1.335	29.00 1.142	32.40 1.276	32.22 1.269
64	35.90 1.413	31.00 1.220	34.40 1.354	34.22 1.347
70	38.90 1.531	34.00 1.339	37.40 1.472	37.22 1.465
80	43.90 1.728	39.00 1.535	42.40 1.669	42.22 1.662
84	45.90 1.807	41.00 1.614	44.40 1.748	44.22 1.741
90	48.90 1.925	44.00 1.732	47.40 1.866	47.22 1.859
100	53.90 2.122	49.00 1.929	52.40 2.063	52.22 2.056
110	58.90 2.319	54.00 2.126	57.40 2.260	57.22 2.253
120	63.90 2.516	59.00 2.323	62.40 2.457	62.22 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 DRWN: BARKER CHKD: BSWART APPR: SMILLER	2008/12/10 2008/12/10 2008/12/10	DESCRIPTION REV
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QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .005 2 PLACES ± 0.13 ± .01 1 PLACE ± 0.25 ± --- ANGULAR ± 1/2°	DIMENSION STYLE MM/IN DRAWN BY DATE REED 1995/04/03 CHECKED BY DATE REED 1995/04/03 APPROVED BY DATE BIXLER 1995/04/03	SCALE INCH	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	TITLE ASSY MFG, 1.0MM BOARD TO BOARD RECEPT CONNECTOR 5.30/.209 HIGH	MATERIAL NO. SEE TABLE	DOCUMENT NO. SDA-71439-0***	SHEET NO. 1 OF 2
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									

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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

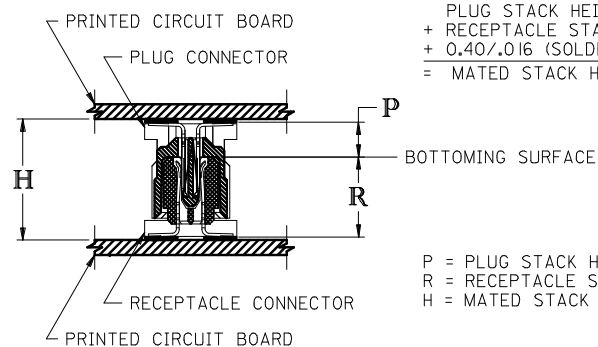
CONTACT PLATING:

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***



PLUG STACK HEIGHT
+ RECEPTACLE STACK HEIGHT
+ 0.40/.016 (SOLDER PASTE ALLOWANCE)
= MATED STACK HEIGHT

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

CHG TUBE PACKAGING EC NO: UCP2009-1286 DRWN:BBARKER 2008/12/10 CHKD:BSMART 2008/12/10 APPR:SMILLER 2008/12/10	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
			mm		INCH		DRAWN BY DATE		TITLE	
			4 PLACES ± --- ± ---		REED 1995/04/03		CHECKED BY DATE		ASSY MFG, 1.0MM BOARD TO BOARD RECEPT CONNECTOR 5.30/.209 HIGH	
			3 PLACES ± --- ± .005		REED 1995/04/03		APPROVED BY DATE		MOLEX INCORPORATED	
2 PLACES ± 0.13 ± .01		BIXLER 1995/04/03		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
1 PLACE ± 0.25 ± ---		ANGULAR ± 1/2°		SEE TABLE		SDA-71439-0***		2 OF 2		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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