

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0714390364](#)
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 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

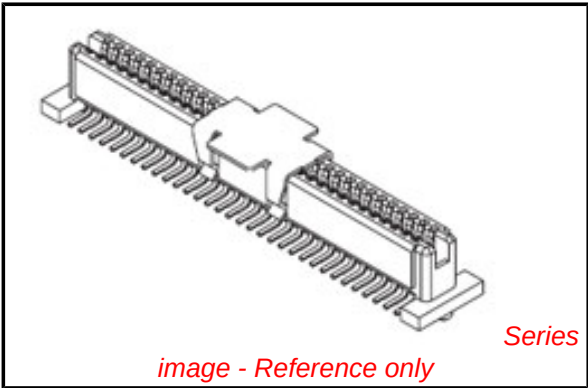
Circuits (Loaded)	64
Color - Resin	Natural
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Mated Height (in)	0.315 In, 0.354 In, 0.394 In
Mated Height (mm)	10.00 mm, 8.00 mm, 9.00 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material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

Lead-free Process Capability	Reflow Capable (SMT only)
Process Temperature max. C	260



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

Material Info

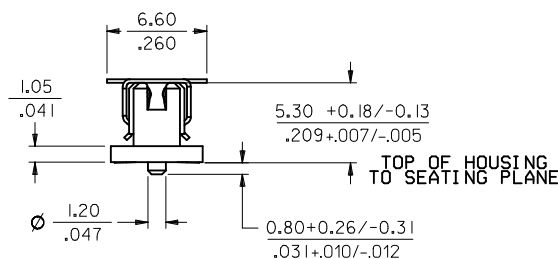
Reference - Drawing Numbers

Product Specification
Sales Drawing

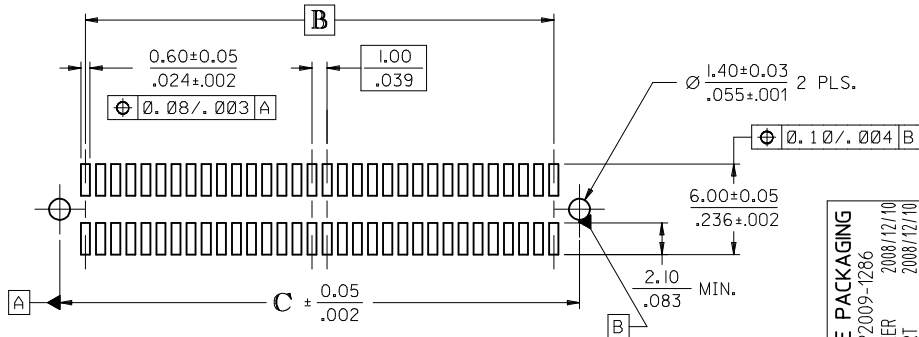
PS-71436-9999, RPS-71436-002, RPS-71436-003
SDA-71439-0***

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



RECOMMENDED PCB THICKNESS: 1.00±0.10/.039±.004

- NOTES:**
1. 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
 2. CONTACT PLATING FINISH: REFER TO CHART ON SHEET 2
 3. 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.
 4. PACKAGING SPECIFICATIONS: REFER TO CHART ON SHEET 2.
 5. PEGS ARE OPTIONAL. REFER TO CHART ON SHEET 2.
 6. VACUUM PICK & PLACE CAP IS OPTIONAL. REFER TO CHART ON SHEET 2.
 7. THIS PART CONFORMS TO EIA STANDARD 700 AAAB FOR 1.0mm TWO-PART
CONNECTORS FOR USE WITH PARALLEL PRINTED BOARDS.
 8. COPLANARITY OF SMT TAILS: 0.10 MM/.004 INCH MAXIMUM
 9. 64-CIRCUIT RECEPTACLE ASSEMBLY WITH PEGS AND VACUUM CAP SHOWN
FOR ILLUSTRATION PURPOSES ONLY.
 10. INCH DIMENSIONS SHOWN FOR REFERENCE ONLY.
 11. ASSEMBLY TO HAVE DATE CODE: XX XX

WEEK _____ YEAR _____

[illegible]

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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

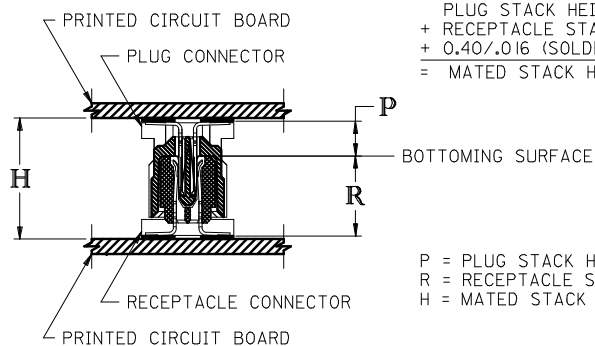
CONTACT PLATING:

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
REV N

QUALITY
SYMBOLS
▽=0
▽=0
DESCRIPTION
REV

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± .005	± .0005
3 PLACES	± .01	± .001
2 PLACES	± .02	± .002
1 PLACE	± .05	± .005

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

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

MATERIAL NO.
SEE TABLE

SIZE
C

SCALE
DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

TITLE
ASSY MFG, 1.0MM BOARD TO
BOARD RECEPT CONNECTOR
5.30/.209 HIGH

MOLEX
MOLEX INCORPORATED

DOCUMENT NO.
SDA-71439-0***

SHEET NO.
2 OF 2

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