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Part Number: [0714362864](#)
Status: **Active**
Description: 1.00mm (.039") Pitch Mezzanine IEEE 1386 Plug, Surface Mount, Dual Row, Vertical Stacking, 64 Circuits, 8.35mm (.329") Unmated Height, without PCB Locator Pegs, with Robotic Placement Metal Cap, 0.76µm (30µ") Gold (Au) Selective Plating, Embos

Documents:

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

Agency Certification

CSA	LR19980
UL	E29179

General

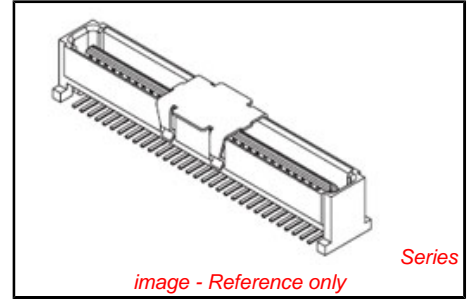
Product Family	PCB Headers
Series	71436
Application	Board-to-Board
Product Name	Mezzanine

Physical

Breakaway	No
Circuits (Loaded)	64
Circuits (maximum)	64
Color - Resin	Natural
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	None
Mated Height (in)	0.394 In, 0.472 In, 0.512 In, 0.591 In
Mated Height (mm)	10.00 mm, 12.00 mm, 13.00 mm, 15.00 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	No
PCB Retention	None
PCB Thickness Recommended (in)	0.040 In
PCB Thickness Recommended (mm)	1.00 mm
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 Mating Part	No
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-55°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

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



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
[71436Series](#)

Mates With
[714390](#) for Stack Height 10mm, [714391](#) for Stack Height 12mm, [714392](#) for Stack Height 13mm, [714393](#) for Stack Height 15mm

Solder Process Data

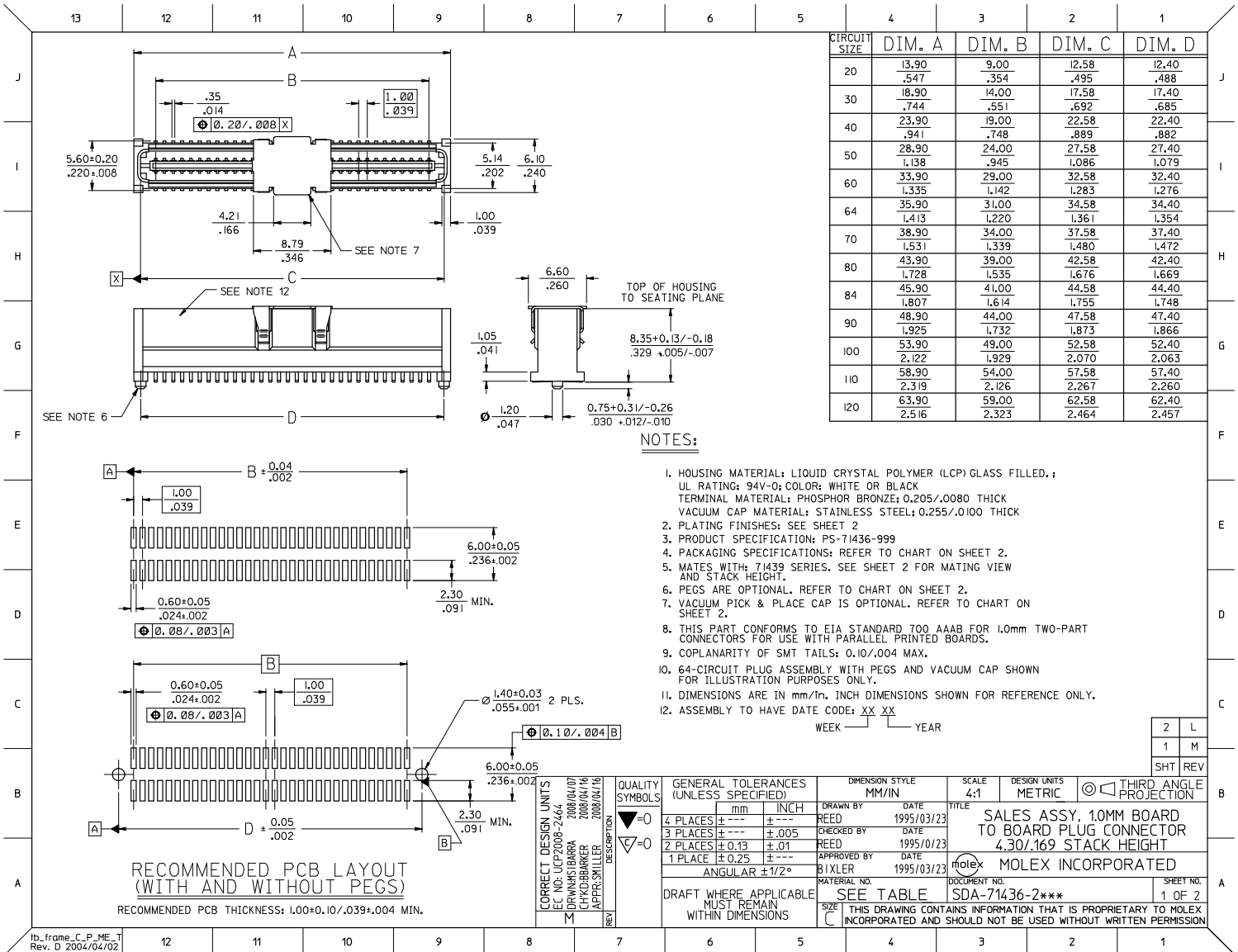
Duration at Max. Process Temperature (seconds)	40
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

Material Info**Reference - Drawing Numbers**

Product Specification	PS-71436-9999
Sales Drawing	SDA-71436-2***

This document was generated on 04/08/2010

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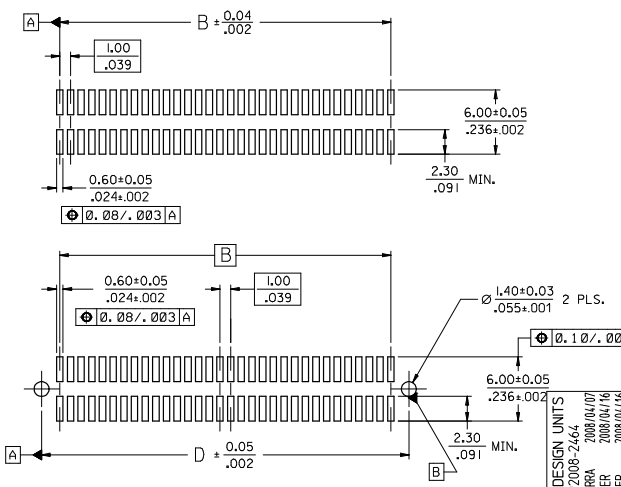


CIRCUIT SIZE	DIM. A	DIM. B	DIM. C	DIM. D
20	13.90	9.00	12.58	12.40
	.547	.354	.495	.488
30	18.90	14.00	17.58	17.40
	.744	.551	.692	.685
40	23.90	19.00	22.58	22.40
	.941	.748	.889	.882
50	28.90	24.00	27.58	27.40
	1.138	.945	1.086	1.079
60	33.90	29.00	32.58	32.40
	1.335	1.142	1.283	1.276
64	35.90	31.00	34.58	34.40
	1.413	1.220	1.361	1.354
70	38.90	34.00	37.58	37.40
	1.531	1.339	1.480	1.472
80	43.90	39.00	42.58	42.40
	1.728	1.535	1.676	1.669
84	45.90	41.00	44.58	44.40
	1.807	1.614	1.755	1.748
90	48.90	44.00	47.58	47.40
	1.925	1.732	1.873	1.866
100	53.90	49.00	52.58	52.40
	2.122	1.929	2.070	2.063
110	58.90	54.00	57.58	57.40
	2.319	2.126	2.267	2.260
120	63.90	59.00	62.58	62.40
	2.516	2.323	2.464	2.457

NOTES:

- HOUSING MATERIAL: LIQUID CRYSTAL POLYMER (LCP) GLASS FILLED; UL RATING: 94V-0; COLOR: WHITE OR BLACK
- TERMINAL MATERIAL: PHOSPHOR BRONZE; 0.205/.0080 THICK
- VACUUM CAP MATERIAL: STAINLESS STEEL; 0.255/.0100 THICK
- PLATING FINISHES: SEE SHEET 2
- PRODUCT SPECIFICATION: PS-71436-999
- PACKAGING SPECIFICATIONS: REFER TO CHART ON SHEET 2.
- MATES WITH: 71439 SERIES. SEE SHEET 2 FOR MATING VIEW AND STACK HEIGHT.
- 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/.004 MAX.
- 64-CIRCUIT PLUG ASSEMBLY WITH PEGS AND VACUUM CAP SHOWN FOR ILLUSTRATION PURPOSES ONLY.
- DIMENSIONS ARE IN mm/in. INCH DIMENSIONS SHOWN FOR REFERENCE ONLY.
- ASSEMBLY TO HAVE DATE CODE: XX XX
WEEK _____ YEAR _____

2	L
1	M
SHT	REV



**RECOMMENDED PCB LAYOUT
(WITH AND WITHOUT PEGS)**

RECOMMENDED PCB THICKNESS: 1.00±0.10/.039±0.004 MIN.

CORRECT DESIGN UNITS
EC NO: UCP2008-2464
DRWNS: IBARRA 2008/04/07
CHKD: BARKER 2008/04/16
APPR: SHILLER 2008/04/16
REV

QUALITY SYMBOLS
▽=0
▽=0
ANGULAR ±1/2°

GENERAL TOLERANCES (UNLESS SPECIFIED)
4 PLACES ± --- ± ---
3 PLACES ± --- ± .005
2 PLACES ± 0.13 ± .01
1 PLACE ± 0.25 ± ---
ANGULAR ±1/2°

DIMENSION STYLE	MM/IN
SCALE	4:1
DESIGN UNITS	METRIC
THIRD ANGLE PROJECTION	
DRAWN BY	REED
DATE	1995/03/23
CHECKED BY	
DATE	
REED	1995/0/23
APPROVED BY	BIXLER
DATE	1995/03/23
MATERIAL NO.	SEE TABLE
DOCUMENT NO.	SDA-71436-2***
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

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

WHITE (NATURAL) MATERIAL

CIRCUIT SIZE	PLUG ASSEMBLY ITEM NUMBER	PEGS	CONTACT PLATING (SEE PLATING NOTES)	PICK & PLACE CAP	PACKAGING SPEC. NUMBER	PACKAGING TYPE
64	71436-2164	YES	30 GOLD	NO	PK-70873-0607	TUBE
64	71436-2364	YES	30 GOLD	YES	PK-70873-0607	TUBE
64	71436-2464	YES	30 GOLD	YES	PK-70873-063	TAPE & REEL
64	71436-2564	NO	30 GOLD	NO	PK-70873-0606	TUBE
64	71436-2764	NO	30 GOLD	YES	PK-70873-0606	TUBE
64	71436-2864	NO	30 GOLD	YES	PK-70873-063	TAPE & REEL
64	71436-2264	NO	50 GOLD	YES	PK-70873-063	TAPE & REEL
64	71436-2664	YES	50 GOLD	NO	PK-70873-0607	TUBE
64	71436-2064	NO	50 GOLD	NO	PK-70873-0607	TUBE

PLATING NOTES:

30 GOLD: SELECTIVE GOLD (Au) IN THE CONTACT AREA; THICKNESS = 0.76 MICROMETERS (30 MICROINCHES) MINIMUM; THICKNESS TIN (Sn) IN THE PC TAIL AREA; THICKNESS = 1.88 MICROMETERS (75 MICROINCHES) MINIMUM; NICKEL UNDERPLATE OVERALL.

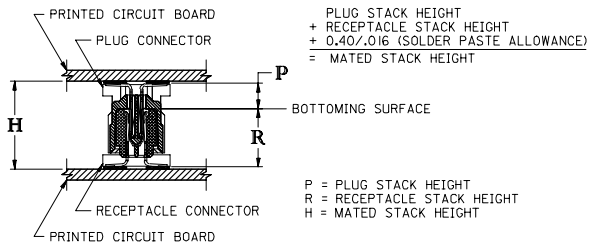
50 GOLD: SELECTIVE GOLD (Au) IN THE CONTACT AREA; THICKNESS = 1.27 MICROMETERS (50 MICROINCHES) MINIMUM; SELECTIVE TIN (Sn) IN THE PC TAIL AREA; THICKNESS = 1.88 MICROMETERS (75 MICROINCHES) MINIMUM; NICKEL UNDERPLATE OVERALL.

BLACK MATERIAL WITH PICK & PLACE CAP

CIRCUIT SIZE	PLUG ASSEMBLY ITEM NUMBER	PEGS	CONTACT PLATING (SEE NOTES PAGE2)	PICK & PLACE CAP	PACKAGING SPEC. NUMBER	PACKAGING TYPE
64	71436-2964	NO	30 GOLD	YES	PK-70873-063	TAPE & REEL

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.
10.00/.394	5.30/.209	71439-0***	4.30/.169	71436-2***
12.00/.472	7.30/.287	71439-1***	4.30/.169	71436-2***
13.00/.512	8.30/.327	71439-2***	4.30/.169	71436-2***
15.00/.591	10.30/.406	71439-3***	4.30/.169	71436-2***



ADD 71436-2064/-2664 EC NO. UCP2007-2420 DRWNSI BARRA 2007/05/08 CHIKKUNGAN 2007/05/17 APPR: SHILLER 2007/05/18	QUALITY SYMBOLS $\nabla=0$ $\nabla=0$	GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ±1/2°	DIMENSION STYLE MM/IN DRAWN BY REED DATE 1995/03/23 CHECKED BY DATE REED 1995/03/23 APPROVED BY DATE BIXLER 1995/03/23	SCALE --- DESIGN UNITS INCH THIRD ANGLE PROJECTION	TITLE SALES ASSY, 1.0MM BOARD TO BOARD PLUG CONNECTOR 4.30/.169 STACK HEIGHT MOLEX INCORPORATED	MATERIAL NO. SEE TABLE DOCUMENT NO. SDA-71436-2*** SHEET NO. 2 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			

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