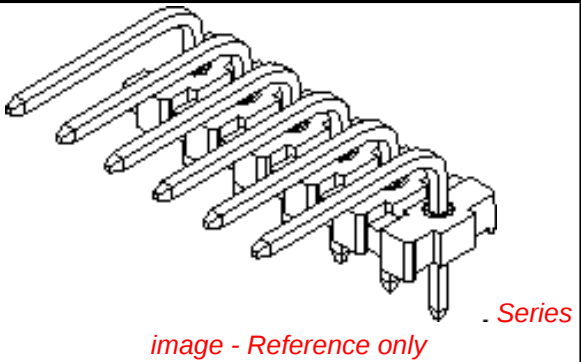


PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0416620011](#)
Status: **Active**
Description: 3.96mm (.156") Pitch KK® Header, Breakaway, Right Angle, 12 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating



Documents:

- | | |
|---|--|
| 3D Model | Product Specification PS-08-50 (PDF) |
| Packaging Specification (PDF) | RoHS Certificate of Compliance (PDF) |
| Drawing (PDF) | |

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	41662
Application	Board-to-Board, Wire-to-Board
Product Name	KK®

Physical

Breakaway	Yes
Circuits (Loaded)	12
Circuits (maximum)	12
Color - Resin	Black
Durability (mating cycles max)	50
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Resin	Polyester
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.184 In
PC Tail Length (mm)	4.67 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.156 In
Pitch - Mating Interface (mm)	3.96 mm
Plating min: Mating (µin)	15
Plating min: Mating (µm)	0.38
Polarized to Mating Part	Yes
Polarized to PCB	No
Shrouded	Partial
Stackable	No
Temperature Range - Operating	0°C to +75°C
Termination Interface: Style	Through Hole

Electrical

EU RoHS ELV and RoHS Compliant REACH SVHC Contains SVHC: No Halogen-Free Status Not Reviewed	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
[41662Series](#)

Mates With
[2139](#) , [2145](#) , [6442](#) , [7674](#) , [7675](#) , [41695](#) , [41815](#)

Current - Maximum per Contact	7A
Voltage - Maximum	250V
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	
Old Part Number	A-41662-B12Y208
Reference - Drawing Numbers	
Product Specification	PS-08-50
Sales Drawing	SD-41662-001

This document was generated on 04/19/2010

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A-41662-* N * - *

PACKAGING AND OPTIONS

NO. OF CKTS.

PIN DIMENSIONS

PLATING

VOID LOCATIONS:
BLANK = NO VOIDS
NO.= CKT NO. VOIDED
MULT. VOIDS START
WITH 51

CENTERLINE OF PIN IN AREA SHOWN
NOT TO VARY FROM CENTERLINE OF
PIN AT DATUM Z BY MORE THAN
0.20/.008 IN ANY DIRECTION.

7.62
.300

1.3
.05

(X)
DIM. M
±.51
TYP.

DIM. G
GOLD

DIM. Y
TYP.

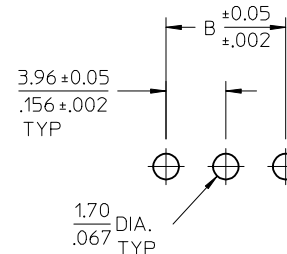
DIM. T
TIN

DIM. Z
TYP. REF.

90°
TYP. REF.

SEE DETAIL A

OPTIONAL VOIDED CKT.
SEE CHART FOR LOCATIONS



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS:
(1.57 ± .18) / .062 ± .007

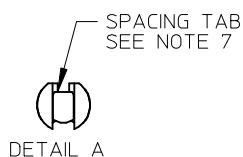
NOTES:

1. MATERIAL: GLASS FILLED POLYESTER, 94V-0, MOLDED BLACK
2. FINISH: PER SDES-88
- (102) OVERALL TIN: 0.00508/.000200 MIN.
OVERALL COPPER UNDERPLATE: 0.00254/.000100 MIN.
- (154) OVERALL TIN: 0.00254/.000100 MIN.
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
- (208) SELECT GOLD: 0.00038/.000015 MIN.
* SELECT TIN: 0.00254/.000100 MIN.
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
- (228) SELECT GOLD: 0.00076/.000030 MIN.
* SELECT TIN: 0.00254/.000100 MIN.
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
- (501) OVERALL GOLD: 0.00051/.000020 MIN.
OVERALL NICKEL UNDERPLATE: 0.00076/.000030 MIN.

3. PRODUCT SPECIFICATION: PS-08-50.
4. PACKAGING INFORMATION: SEE CHARTS
5. SOLDERABILITY: PER SMES-152.
6. PIN PUSH-OUT FORCE: PRIOR TO SOLDERING, A 3 LB. MINIMUM FORCE (IN EITHER DIRECTION) SHALL BE REQUIRED TO PUSH THE PIN OUT OF THE HEADER.
7. PARTS ARE STACKABLE END TO END ON 3.96/.156 CENTERS. (SPACING TABS MUST BE REMOVED ON CIRCUIT SIZES 1-23 BEFORE PARTS ARE STACKABLE.)
- *8. 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 PLATING.
9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

CIRCUIT	B	A
2	3.96 .156	6.78/7.87 .267/.310
3	7.92 .312	10.74/11.84 .423/.466
4	11.89 .468	14.71/15.80 .579/.622
5	15.85 .624	18.67/19.76 .735/.778
6	19.81 .780	22.63/23.72 .891/.934
7	23.77 .936	26.59/27.69 1.047/1.090
8	27.74 1.092	30.56/31.65 1.203/1.246
9	31.70 1.248	34.52/35.61 1.359/1.402
10	35.66 1.404	38.48/39.57 1.515/1.558
11	39.62 1.560	42.44/43.54 1.671/1.714
12	43.59 1.716	46.41/47.50 1.827/1.870
13	47.55 1.872	50.37/51.46 1.983/2.026
14	51.51 2.028	54.33/55.42 2.139/2.182
15	55.47 2.184	58.29/59.39 2.295/2.338
16	59.44 2.340	62.26/63.35 2.451/2.494
17	63.40 2.496	66.22/67.31 2.607/2.650
18	67.36 2.652	70.18/71.27 2.763/2.806
19	71.32 2.808	74.14/75.23 2.919/2.962
20	75.29 2.964	78.11/79.20 3.075/3.118
21	79.25 3.120	82.07/83.16 3.231/3.274
22	83.21 3.276	86.03/87.12 3.387/3.430
23	87.17 3.432	89.94/91.08 3.541/3.586
24	91.14 3.588	93.85/95.00 3.695/3.740

2-*	AH7
1	
SHT.	REV.



REMOVE 41662-0684 EC NO: UCP2010-0149 DRWN:MKLIPPER CHKD:SSOUSEK APPR:FSM TH	2009/08/05	2009/08/10	2009/08/11
	DESCRIPTION		
	REV		
	AH7		

QUALITY SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .014
1 PLACE	± 0.36	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM/IN

DRAWN BY	DATE
JSCHAFFER	2003/09/15
CHECKED BY	DATE
KSAMIEC	2003/09/15
APPROVED BY	DATE
MARGULIS	2003/09/15

MATERIAL NO.

SEE CHART

SIZE
A

SCALE
4:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

TITLE
KK .156 HEADER ASSEMBLY
FLAT BREAKAWAY
2-24 CKTS.

MOLEX INCORPORATED

DOCUMENT NO.
SD-41662-001

SHEET NO.
1 OF 12

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