

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0022122274](#)
Status: **Active**
Description: 2.54mm (.100") Pitch KK® Solid Header, Right Angle, with Friction Lock, 27 Circuits, 0.51µm (20µ") Gold (Au) Plating

Documents:

3D Model	Product Specification PS-10-07 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

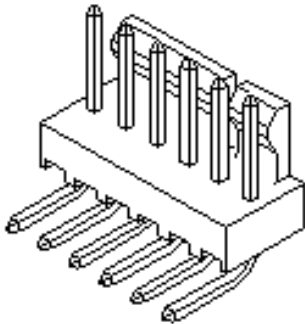
Product Family	PCB Headers
Series	7478
Application	Wire-to-Board
Product Name	KK®

Physical

Breakaway	No
Circuits (Loaded)	27
Circuits (maximum)	27
Color - Resin	Natural (White)
Durability (mating cycles max)	50
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Material - Resin	Nylon
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.141 In
PC Tail Length (mm)	3.58 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)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Plating min: Mating (µin)	20
Plating min: Mating (µm)	0.5
Plating min: Termination (µin)	20
Plating min: Termination (µm)	0.5
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Partial
Stackable	Yes
Temperature Range - Operating	0°C to +75°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	4A
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Series
image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**Halogen-Free
Status**

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

[7478Series](#)

Mates With

[2695](#) , [6471](#) , [7880](#) , [4455](#) , [7720](#)

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-7478-27A501
Reference - Drawing Numbers	
Product Specification	PS-10-07, RPS-6373-001
Sales Drawing	SDA-7478

This document was generated on 04/12/2010

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10 9 8 7 6 5 4 3 2 1

NOTES:

- MATERIAL: NYLON, UL94V-0, COLOR: WHITE
- FINISH:
 - (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.
 - (501) - OVERALL GOLD: (0.00051)/.000020 MIN., OVERALL NICKEL UNDERPLATE: (0.00076)/.000030 MIN.
 - (503) - OVERALL GOLD: (0.00076)/.000030 MIN., OVERALL NICKEL UNDERPLATE: (0.00127)/.000050 MIN.
 - (531) - OVERALL GOLD: (0.00038)/.000015 MIN., OVERALL NICKEL UNDERPLATE: (0.00076)/.000030 MIN.
- PARTS CONFORM TO PRODUCT SPECIFICATION PS-10-07.
- PACKAGING INFORMATION: SEE LEGEND.
- PARTS ARE STACKABLE END TO END ON (2.54)/.100 CENTERS.
- PIN PUSH OUT FORCE: 2 LBS. MIN.
- CIRCUIT ONE DESIGNATION IS USED TO DEFINE VOID LOCATION.
CIRCUIT ONE MAY OR MAY NOT LINE UP WITH CIRCUIT ONE ON THE MATING HOUSING.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

Top View Dimensions:

- Overall Width: 6.35 ± 0.25 / $.250 \pm .010$
- Pin Pitch: (2.54 ± 0.05) / $.100 \pm .002$ TYP. BETWEEN ANY TWO CONSECUTIVE CKTS. AT DATUM -D-
- Pin Length: (1.3) / $.05$ CENTERLINE OF PIN IN AREA SHOWN NOT TO VARY FROM CENTERLINE OF PIN AT DATUM -D- BY MORE THAN $(0.20)/.008$ IN ANY DIRECTION
- Slot Width: (1.07 ± 0.15) / $.042 \pm .006$ TYP. AT DATUM -D-
- Pin Diameter: $(.102 \pm 0.05)$ / $.040 \pm .002$ DIA. HOLE TYP.

Side View Dimensions:

- Pin Length: (3.18 ± 0.25) / $.125 \pm .010$
- Pin Diameter: $(.102 \pm 0.05)$ / $.040 \pm .002$ DIA. HOLE TYP.
- Pin Pitch: (2.54 ± 0.05) / $.100 \pm .002$ TYP. NON-ACCUM.

End View Dimensions:

- Pin Length: (1.3) / $.05$ CENTERLINE OF PIN IN AREA SHOWN NOT TO VARY FROM CENTERLINE OF PIN AT DATUM -E- BY MORE THAN $(0.13)/.005$ IN ANY DIRECTION

SECONDARY OPERATIONS

CODE	PACKAGE
BLANK	BULK PK-7478-001
T	TUBE PER PK-44743-001

ADD GROOVE
EC NO: UCP2009-0785
DRWN: HKIPPER 2008/12/29
CHKD: SSUSEK 2009/01/30
APPR: FSM TH 2009/01/30

QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	$\pm .005$	$\pm .0002$
3 PLACES	$\pm .005$	$\pm .0002$
2 PLACES	$\pm .005$	$\pm .0002$
1 PLACE	$\pm .005$	$\pm .0002$

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM/IN

SCALE
4:1

DESIGN UNITS
INCH

THIRD ANGLE PROJECTION

TITLE
FRICTION LOCK HEADER ASY
.100 CL BENT SQ PINS
7478 SERIES DWG

MOLEX INCORPORATED

MATERIAL NO.
SDA-7478

DOCUMENT NO.
SDA-7478

SHEET NO.
1 OF 7

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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<table><tr><td rowspan="6">ADD P/N'S EC NO: UCP2006-1815 DRW:ADERR CHKD:AELHAG APPR:FSM TH Y9</td><td rowspan="6">DESCRIPTION 2006/02/06 2006/02/06 2006/02/09</td><td rowspan="6">QUALITY SYMBOLS ▽=0 ▽=0</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE IN/MM</td><td>SCALE ---</td><td>DESIGN UNITS INCH</td><td colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td>mm</td><td>INCH</td><td>DRAWN BY GUZIK</td><td>DATE 1987/07/10</td><td colspan="4">TITLE FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG.</td></tr><tr><td>4 PLACES ± ---</td><td>± ---</td><td>CHECKED BY PATEL</td><td>DATE 1987/07/10</td><td colspan="4">MATERIAL NO. LENZ</td></tr><tr><td>3 PLACES ± ---</td><td>± ---</td><td>APPROVED BY LENZ</td><td>DATE 1987/07/10</td><td colspan="4">DOCUMENT NO. SDA-7478</td></tr><tr><td>2 PLACES ± ---</td><td>± ---</td><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">SIZE C</td><td colspan="2">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr><tr><td>1 PLACE ± ---</td><td>± ---</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="3"></td><td colspan="2">ANGULAR ± ---°</td><td colspan="2">SEE CHART</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="3"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="3"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="3"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="3"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td 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