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Part Number: [0022436020](#)
Status: **Active**
Description: 2.50mm (.098") Pitch SPOX™ Header, Shrouded, Staggered Footprint, 2 Circuits, White

Documents:

[3D Model](#) [Product Specification PS-42219-0001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

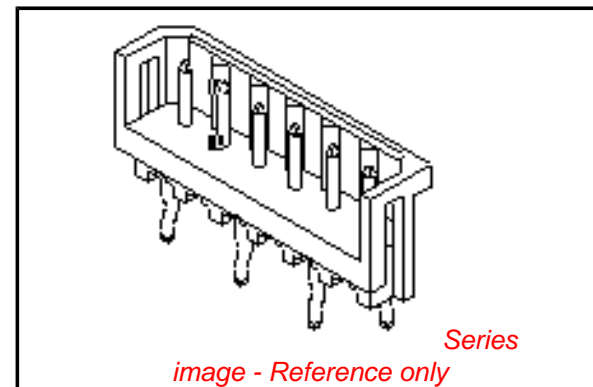
Product Family PCB Headers
 Series [42249](#)
 Application Wire-to-Board
 Product Name SPOX™

Physical

Breakaway No
 Circuits (Loaded) 2
 Circuits (maximum) 2
 Color - Resin Natural
 Durability (mating cycles max) 25
 Flammability 94V-0
 Glow-Wire Compliant No
 Lock to Mating Part None
 Material - Plating Mating Tin
 Material - Plating Termination Tin
 Material - Resin Polyester
 Number of Rows 1
 Orientation Vertical
 PC Tail Length (in) 0.130 In
 PC Tail Length (mm) 3.30 mm
 PCB Locator No
 PCB Retention Yes
 PCB Thickness Recommended (in) 0.062 In
 PCB Thickness Recommended (mm) 1.60 mm
 Packaging Type Bag
 Pitch - Mating Interface (in) 0.098 In
 Pitch - Mating Interface (mm) 2.50 mm
 Plating min: Mating (µin) 101.6
 Plating min: Mating (µm) 2.54
 Plating min: Termination (µin) 101.6
 Plating min: Termination (µm) 2.54
 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

Current - Maximum per Contact 3A
 Voltage - Maximum 250V



EU RoHS

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

China RoHS



Not 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

[42249Series](#)

Mates With

[42219](#)

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

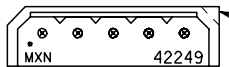
| | |
|-----------------|------------|
| Old Part Number | A-42249-2A |
|-----------------|------------|

Reference - Drawing Numbers

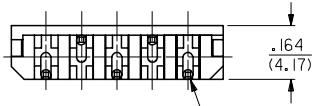
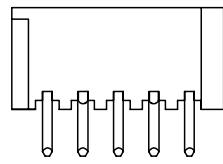
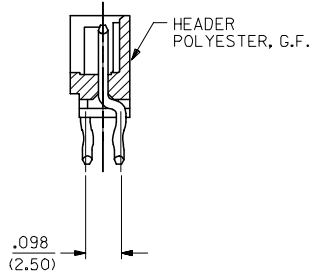
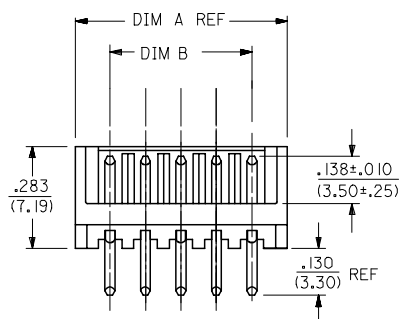
| | |
|---------------------------|---------------|
| Application Specification | AS-42249-001 |
| Product Specification | PS-42219-0001 |
| Sales Drawing | SDA-42249-* |

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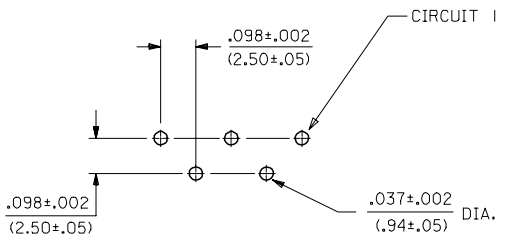
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SQUARE CORNER IS CKT 1 IDENTIFIER



CIRCUIT 1



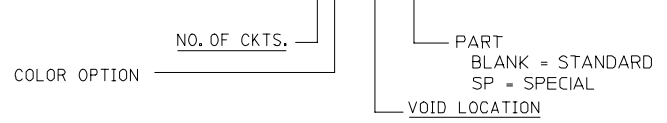
PCB HOLE LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: .062 (1.57)

NOTES:

- 1) MATERIAL: HEADER : PLOYESTER, GLASS FILLED.
PIN : BRASS.
- 2) FINISH:
(154) --100 MICROINCHES (2.54 MICROMETERS) MIN. TIN OVER
50 MICROINCHES (1.27 MICROMETERS) MIN. NICKEL UNDERPLATE.
- 3) PRODUCT SPECS: PS-42219-0001.
- 4) PACKAGING: PARTS MUST BE PACKAGED IN A 9" X12" ANTI-STATIC
POLY-BAG BEFORE PLACING IN CORRUGATED SHIPPING CARTON.
- 5) ANY VOID COMBINATION LEAVING PINS IN ONE ROW ONLY IS NOT AN AVAILABLE
OPTION. THE RESULTS WOULD BE MINIMAL BOARD RETENTION.

| NO. OF CKTS. | KINK LOC. | DIM A IN/(MM) | DIM B IN/(MM) |
|--------------|-----------|---------------|---------------|
| 2 | ALL PINS | .292/(7.42) | .098/(2.50) |
| 3 | ALL PINS | .391/(9.92) | .197/(5.00) |
| 4 | ALL PINS | .489/(12.42) | .295/(7.50) |
| 5 | ALL PINS | .587/(14.92) | .394/(10.00) |
| 6 | ALL PINS | .685/(17.40) | .492/(12.50) |
| 7 | ALL PINS | .783/(19.90) | .591/(15.00) |
| 8 | ALL PINS | .882/(22.40) | .689/(17.50) |
| 9 | ALL PINS | .980/(24.90) | .787/(20.00) |
| 10 | ALL PINS | 1.079/(27.40) | .886/(22.50) |
| 11 | ALL PINS | 1.177/(29.90) | .984/(25.00) |
| 12 | ALL PINS | 1.276/(32.40) | 1.083/(27.50) |
| 13 | ALL PINS | 1.374/(34.90) | 1.181/(30.00) |
| 14 | ALL PINS | 1.472/(37.40) | 1.280/(32.50) |
| 15 | ALL PINS | 1.571/(39.90) | 1.378/(35.00) |

A-42249-N*- *- *



| | | | | |
|---|--|--|--|--|
| REPLACE PIN 42238 EC NO: UCP2006-0509 DRW: AELHAG CHKD: 2006/03/28 APPR: FSI TH REVISION DESCRIPTION 2006/03/08 2006/03/28 2006/03/29 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .015 1 PLACE ± 0.38 ± --- ANGULAR ±1/2° | DIMENSION STYLE IN/MM DRAWN BY DATE RE 12/17/88 CHECKED BY DATE WRL 12/17/88 APPROVED BY DATE LENZ 12/17/88 | SCALE 4:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION |
| | SEE CHART | | | TITLE 2.5 MM HEADER ASSEMBLY (STAGGERED PINS) |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | MATERIAL NO. SDA-42249-* MOLEX INCORPORATED | |
| | SIZE C | | SHEET NO. 1 OF 4 | |

| A-42249-NA* | | | | A-422649-NB* | | | | A-42249-NC* | | | | |
|--------------------|---------------------|----------------|-----------|--|-------------|----------------|--------------|-------------|---------------|----------------|--------------|--|
| OPTIONS | HOUSING | 42249-N | | OPTIONS | HOUSING | 42249-NA | | OPTIONS | HOUSING | 42249-NB | | |
| | COLOR | WHITE | | | COLOR | BLUE | | | COLOR | BROWN | | |
| | PIN NO | 45613-0001 | | | PIN NO | 45613-0001 | | | PIN NO | 45613-0001 | | |
| | PLATING | 154 | | | PLATING | 154 | | | PLATING | 154 | | |
| Ckt | Material No | Engineering No | Void Ckts | Ckt | Material No | Engineering No | Void Ckts | Ckt | Material No | Engineering No | Void Ckts | |
| 2 | 22-43-6020 | A-42249-2A | | 2 | 22-44-7026 | A-42249-2B | | 2 | 22-44-7025 | A-42249-2C | | |
| 3 | 22-43-6030 | A-42249-3A | | 3 | 22-44-7036 | A-42249-3B | | 3 | 22-44-7035 | A-42249-3C | | |
| 4 | 22-43-6040 | A-42249-4A | | 4 | 22-44-7046 | A-42249-4B | | 4 | 22-44-7045 | A-42249-4C | | |
| 5 | 22-43-6050 | A-42249-5A | | 5 | 22-44-7056 | A-42249-5B | | 5 | 22-44-7055 | A-42249-5C | | |
| 6 | 22-43-6060 | A-42249-6A | | 6 | | A-42249-6B | | 6 | 22-44-7065 | A-42249-6C | | |
| 7 | 22-43-6070 | A-42249-7A | | 7 | | A-42249-7B | | 7 | 22-44-7075 | A-42249-7C | | |
| 8 | 22-43-6080 | A-42249-8A | | 8 | | A-42249-8B | | 8 | 22-44-7085 | A-42249-8C | | |
| 9 | 22-43-6090 | A-42249-9A | | 9 | | A-42249-9B | | 9 | 22-44-7095 | A-42249-9C | | |
| 10 | 22-43-6100 | A-42264910A | | 10 | | A-42264910B | | 10 | 22-44-7105 | A-42249-10C | | |
| 11 | 22-43-6110 | A-42249-11A | | 11 | | A-42249-11B | | 11 | 22-44-7115 | A-42249-11C | | |
| 12 | 22-43-6120 | A-42249-12A | | 12 | | A-42249-12B | | 12 | 22-44-7125 | A-42249-12C | | |
| 13 | 22-43-6130 | A-42249-13A | | 13 | | A-42249-13B | | 13 | 22-44-7135 | A-42249-13C | | |
| 14 | 22-43-6140 | A-42249-14A | | 14 | | A-42249-14B | | 14 | 22-44-7145 | A-42249-14C | | |
| 15 | 22-43-6150 | A-42249-15A | | 15 | | A-42249-15B | | 15 | 22-44-7155 | A-42249-15C | | |
| | 22-43-6041 | A-42249-4A-2 | 2 | | | | | | | | | |
| | 22-43-6042 | A-42249-4A-3 | 3 | | | | | | | | | |
| | 22-43-6063 | A-42249-6A-51 | 3,5 | | | | | | | | | |
| | 22-43-6064 | A-42249-6A-52 | 2,4 | | | | | | | | | |
| | 22-43-6032 | A-42249-3A-3 | 3 | | | | | | | | | |
| | 022-43-6073 | A-42249-07A-51 | 2,5 | | | | | | | | | |
| | 022-43-6072 | A-42249-07A-3 | 3 | | | | | | | | | |
| | 022-43-6074 | A-42249-07A-5 | 5 | | | | | | | | | |
| | 022-43-6075 | A-42249-07A-52 | 3,6 | | | | | | | | | |
| | 022-43-6061 | A-42249-06A-5 | 5 | | | | | | | | | |
| | 022-43-6065 | A-42249-06A-2 | 2 | | | | | | | | | |
| REV: | ECR/ECN INFORMATION | | | TITLE: | | | | | | | SHEET No. | |
| S | EC NO: UCP2006-0509 | | | 2.5 MM HEADER ASSEMBLY (STAGGERED PINS) | | | | | | | - 2 - | |
| | DATE: 3/29/2006 | | | | | | | | | | | |
| DOCUMENT NUMBER: | | | | CREATED / REVISED BY: | | | CHECKED BY: | | APPROVED BY: | | | |
| SDA-42249-* | | | | ELHAG | | | ADERR | | FSMITH | | | |

