

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0905722102](#)
Status: **Active**
Description: 2.54mm (.100") Pitch QF-50™ Header, Right Angle, Dual Row, Shrouded, DIN Keying, with Latch/Eject Levers, 10 Circuits, 0.76 µm Gold (Au)

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

| | |
|-----|---------|
| CSA | LR19980 |
| UL | E29179 |

General

| | |
|---------------------|-------------------------------------|
| Product Family | Ribbon Cable / Wire Trap Connectors |
| Series | 90572 |
| Comments | Eject Levers |
| Component Type | PCB Header |
| Glow-Wire Compliant | No |
| Product Name | QF-50™ |

Physical

| | |
|--------------------------------|----------------|
| Circuits (Loaded) | 10 |
| Circuits (maximum) | 10 |
| Color - Resin | Black |
| Durability (mating cycles max) | 300 |
| Entry Angle | 90° Angle |
| Flammability | 94V-0 |
| Lock to Mating Part | None |
| Material - Metal | Brass |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | Polyester |
| Number of Rows | 2 |
| PCB Locator | No |
| PCB Retention | None |
| PCB Thickness Recommended (in) | 0.062 In |
| PCB Thickness Recommended (mm) | 1.60 mm |
| Packaging Type | Tray |
| Pitch - Mating Interface (in) | 0.100 In |
| Pitch - Mating Interface (mm) | 2.54 mm |
| Pitch - Term. Interface (in) | 0.100 In |
| Pitch - Term. Interface (mm) | 2.54 mm |
| Plating min: Mating (µin) | 30.4 |
| Plating min: Mating (µm) | 0.76 |
| Plating min: Termination (µin) | 120 |
| Plating min: Termination (µm) | 3 |
| Polarized to Mating Part | Yes |
| Polarized to PCB | No |
| Shrouded | Yes |
| Stackable | No |
| Surface Mount Compatible (SMC) | No |
| Temperature Range - Operating | -25°C to +85°C |
| Termination Interface: Style | Through Hole |
| Wire Insulation Diameter | N/A |
| Wire Size AWG | N/A |
| Wire/Cable Type | Ribbon Cable |



image - Reference only

EU RoHS

China RoHS

Compliance Status

Not Reviewed

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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

[90572Series](#)

Mates With

[90635 QF-50™ Female Housing](#)

Electrical

Current - Maximum per Contact

1A

Voltage - Maximum

250V AC/DC

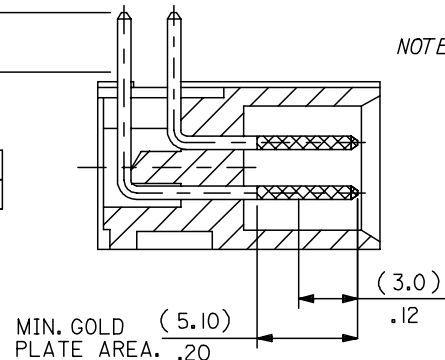
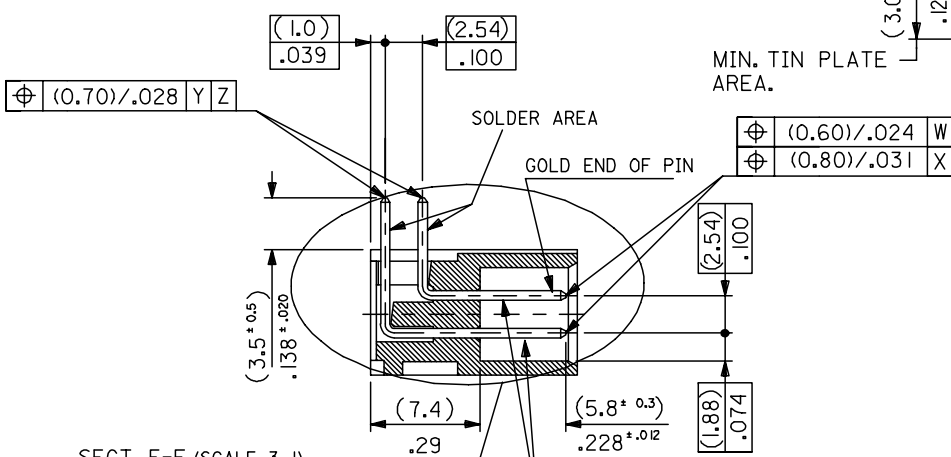
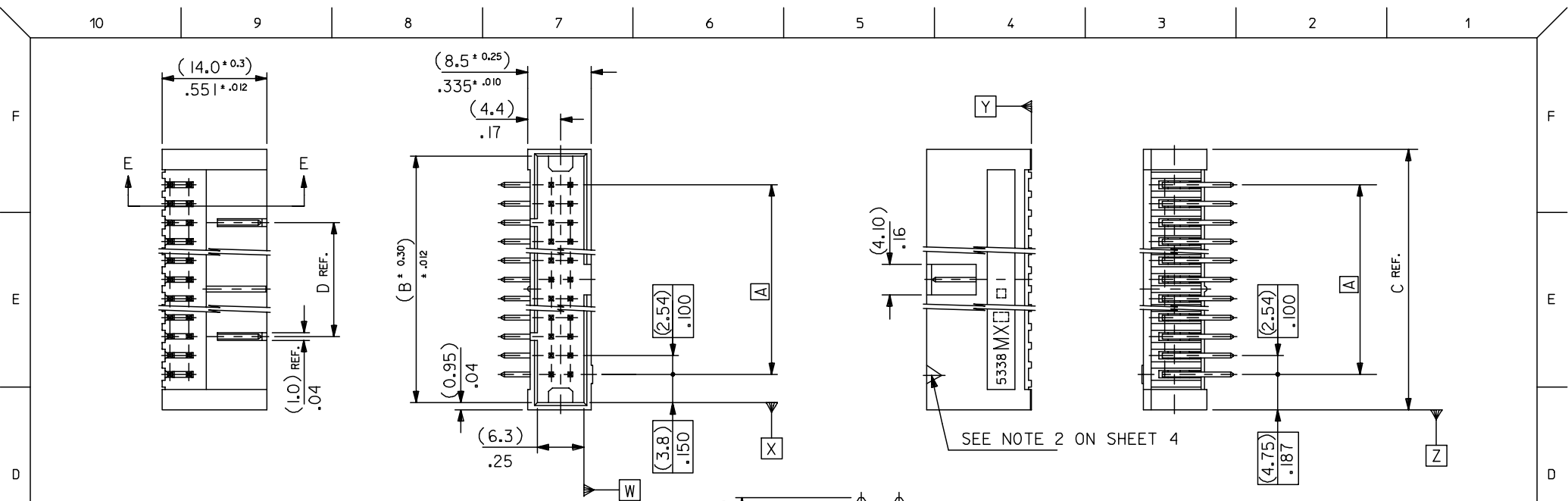
Material Info**Reference - Drawing Numbers**

Sales Drawing

SDA-90572

This document was generated on 06/08/2010

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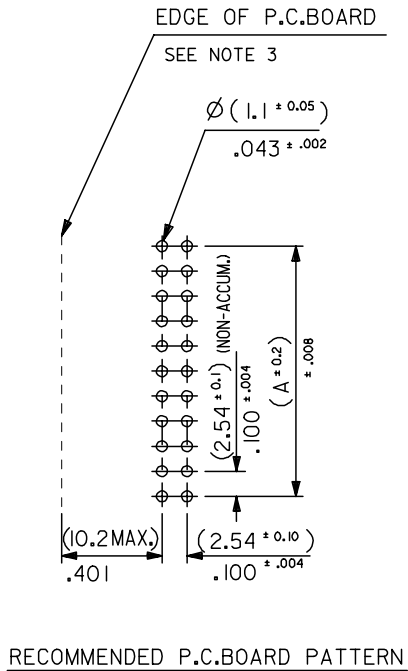
- NOTES:
- 1: FOR MATERIAL SPECIFICATION SEE NOTE 1. ON SHEET 4.
 - 2: FOR RECOMMENDED P.C.B.HOLE PATTERN, PART NOTS AND UNSTATED DIMENSIONS SEE SHEET 4.
 - 3: PRODUCT SPEC. No. : PS-99020-0015.

DETAIL A
DIMENSIONS FOR SELECTIVE PLATING'S, SCALE 4:1

SECT. E-E (SCALE 3-1)

| CORRECTED PS EC NO: E2008-0129 DRWN:DBYRNES 2007/09/13 CHKD: 2007/09/13 APPR:EOMAHONY 2007/09/14 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|----------|-----------|------------|-------------------------------------------------------|------------|------------|---------|------------|-----------|-------|-------------|--------|--|--|--|--|--------------------|--|--|
| | $\nabla=0$ $\triangle=0$ | <table border="1"> <thead> <tr> <th></th> <th>MM</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>\pm---</td> <td>\pm---</td> </tr> <tr> <td>3 PLACES</td> <td>\pm---</td> <td>\pm.008</td> </tr> <tr> <td>2 PLACES</td> <td>\pm0.20</td> <td>\pm.008</td> </tr> <tr> <td>1 PLACE</td> <td>\pm0.20</td> <td>\pm---</td> </tr> </tbody> </table> | | MM | INCH | 4 PLACES | \pm --- | \pm --- | 3 PLACES | \pm --- | \pm .008 | 2 PLACES | \pm 0.20 | \pm .008 | 1 PLACE | \pm 0.20 | \pm --- | MM/IN | 2:1 | METRIC | | | | | | | |
| | | MM | INCH | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 PLACES | \pm --- | \pm --- | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 PLACES | \pm --- | \pm .008 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 PLACES | \pm 0.20 | \pm .008 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 PLACE | \pm 0.20 | \pm --- | | | | | | | | | | | | | | | | | | | | | | | | | |
| DESCRIPTION | <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ENTER PART</td> </tr> </tbody> </table> | REV | DESCRIPTION | 1 | ENTER PART | <table border="1"> <thead> <tr> <th>DRAWN BY</th> <th>DATE</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>POB</td> <td>1990/09/17</td> <td>QIK FLECS RIGHT ANGLE HEADER FOR IMPROVED WIPE FEMALE</td> </tr> <tr> <th>CHECKED BY</th> <th>DATE</th> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <th>APPROVED BY</th> <th>DATE</th> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> | DRAWN BY | DATE | TITLE | POB | 1990/09/17 | QIK FLECS RIGHT ANGLE HEADER FOR IMPROVED WIPE FEMALE | CHECKED BY | DATE | | | | | APPROVED BY | DATE | | | | | MOLEX INCORPORATED | | |
| REV | DESCRIPTION | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ENTER PART | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRAWN BY | DATE | TITLE | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CHECKED BY | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPROVED BY | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO. | DOCUMENT NO. | SHEET NO. | | | | | | | | | | | | | | | | | | | | | | |
| | | | ENTER PART | SDA-90572 | 3 OF 4 | | | | | | | | | | | | | | | | | | | | | | |
| | | | SIZE A3 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | |
|---------------|---------------|---------------|---------------|-------------------------|-------------------------|-------------------------|---------------------|-----------------|
| (78.74)/3.100 | (86.34)/3.400 | (88.24)/3.474 | (63.50)/2.500 | 90572-2641 | 90572-2642 | 90572-2643 | | 64 |
| (73.66)/2.900 | (81.26)/3.200 | (83.16)/3.274 | (50.80)/2.000 | ↑ -2601 | ↑ -2602 | ↑ -2603 | | 60 |
| (60.96)/2.400 | (68.56)/2.700 | (70.46)/2.774 | (38.10)/1.500 | -2501 | -2502 | -2503 | 90572-2509 | 50 |
| (48.26)/1.900 | (55.86)/2.200 | (57.76)/2.274 | (33.02)/1.300 | -2401 | -2402 | -2403 | ↑ -2409 | 40 |
| (40.64)/1.600 | (48.24)/1.900 | (50.14)/1.974 | (30.48)/1.200 | -2341 | -2342 | -2343 | -2349 | 34 |
| (35.56)/1.400 | (43.16)/1.700 | (45.06)/1.774 | (25.40)/1.000 | -2301 | -2302 | -2303 | -1309 | 30 |
| (30.48)/1.200 | (38.08)/1.500 | (39.98)/1.574 | ———— | -2261 | -2262 | -2263 | -2269 | 26 |
| (22.86)/.900 | (30.46)/1.200 | (32.36)/1.274 | ———— | -2201 | -2202 | -2203 | -1209 | 20 |
| (17.78)/.700 | (25.38)/1.000 | (27.28)/1.074 | ———— | -2161 | -2162 | -2163 | -2169 | 16 |
| (15.24)/.600 | (22.84)/.900 | (24.74)/.974 | ———— | -2141 | -2142 | -2143 | -2149 | 14 |
| (10.16)/.400 | (17.76)/.700 | (19.66)/.774 | ———— | ↓ 90572-2101 | ↓ 90572-2102 | ↓ 90572-2103 | ↓ 90572-2109 | 10 |
| A | B | C | D | ENG. NO. GS1 PLATING | ENG. NO. GS2 PLATING | ENG. NO. GS3 PLATING | ENG. NO. PRE TIN | NO. OF CKTS. |



NOTES

1. MATERIAL

HEADER : GLASS FILLED POLYESTER (UL 94V0), COLOUR - BLACK.
PINS : BRASS SIZE # (0.635)/.025 .
LEVER : GLASS FILLED POLYESTER (UL 94V0), COLOUR - BLACK.
SPRING PINS : STEEL

2. COLOUR IDENTIFICATION MARK FOR PLATING OPTIONS.

90572-2**1, (1um)/39uin MIN. NICKEL UNDERPLATE. CONTACT AREA
GS1 PLATING (0.1um)/4uin MIN. GOLD. SOLDER AREA (3um)/118uin MIN.
TIN. COLOUR MARK: YELLOW.
90572-2**2, (1um)/39uin MIN. NICKEL UNDERPLATE. CONTACT AREA
GS2 PLATING (0.76um)/30uin MIN. GOLD. SOLDER AREA (3um)/118uin MIN.
TIN. COLOUR MARK: BROWN.
90572-2**3, (1um)/39uin MIN. NICKEL UNDERPLATE. CONTACT AREA
GS3 PLATING (0.25um)/10uin MIN. GOLD. SOLDER AREA (3um)/118uin MIN.
TIN. COLOUR MARK: BLUE.
90572-2**9, (0.5-1um)/20-40uin NICKEL UNDER (1.0-3.0um)/39-118uin TIN.
PRE-TIN COLOUR MARK: BLACK, (NO MARK).

3. 10.2mm MAX. TO EDGE OF PCB FOR DAISY CHAIN APPLICATIONS.

4. RECOMMENDED PCB THICKNESS 1.6mm

| | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------|-------------------------------------------------------------|------------------------|
| ADDED NOTE 4 EC NO: E2008-0129 DRWN: DBYRNES CHKD: APPR: EOMAHONY 2007/09/13 2007/09/13 2007/09/14 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| | $\nabla = 0$ $\nabla \square = 0$ | mm INCH | MM/IN | 2:1 | METRIC | |
| | | 4 PLACES ± --- ± --- 3 PLACES ± --- ± .008 2 PLACES ± 0.20 ± .008 1 PLACE ± 0.20 ± --- ANGULAR ± 1/2° | DRAWN BY DATE POB 1990/07/17 CHECKED BY DATE APPROVED BY DATE | TITLE | GIK FLECS RIGHT ANGLE HEADER FOR IMPROVED WIPE FEMALE | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | SEE CHART | MATERIAL NO. | DOCUMENT NO. | SDA-90572 |