

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0908972203  
**Status:** Active  
**Description:** 2.54mm (.100) Pitch QF-50™, Right Angle, Dual Row with Eject Levers, Shrouded Header, 20 Circuits, Strain Relief

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

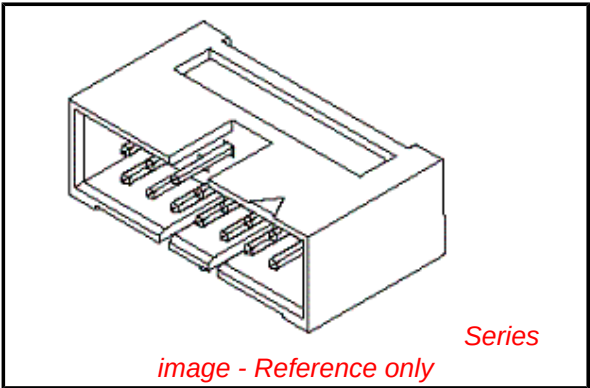
| General             |                                     |
|---------------------|-------------------------------------|
| Product Family      | Ribbon Cable / Wire Trap Connectors |
| Series              | 90897                               |
| Comments            | Din Eject Levers                    |
| Component Type      | PCB Header                          |
| Glow-Wire Compliant | No                                  |
| Product Name        | QF-50™                              |

| Physical                       |                 |
|--------------------------------|-----------------|
| Circuits (Loaded)              | 20              |
| Circuits (maximum)             | 20              |
| Color - Resin                  | Black           |
| Durability (mating cycles max) | 30              |
| Entry Angle                    | 90° Angle       |
| Lock to Mating Part            | None            |
| Material - Metal               | Brass           |
| Material - Plating Mating      | Gold            |
| Material - Plating Termination | Tin             |
| Material - Resin               | Polyester Alloy |
| Number of Rows                 | 2               |
| 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         |
| Polarized to Mating Part       | No              |
| Polarized to PCB               | No              |
| Shrouded                       | Yes             |
| Stackable                      | No              |
| Surface Mount Compatible (SMC) | No              |
| Temperature Range - Operating  | -40°C to +105°C |
| Wire Insulation Diameter       | N/A             |
| Wire Size AWG                  | N/A             |
| Wire/Cable Type                | Ribbon Cable    |

| Electrical                    |      |
|-------------------------------|------|
| Current - Maximum per Contact | 1A   |
| Voltage - Maximum             | 250V |

Material Info

| Reference - Drawing Numbers |           |
|-----------------------------|-----------|
| Sales Drawing               | SDA-90897 |

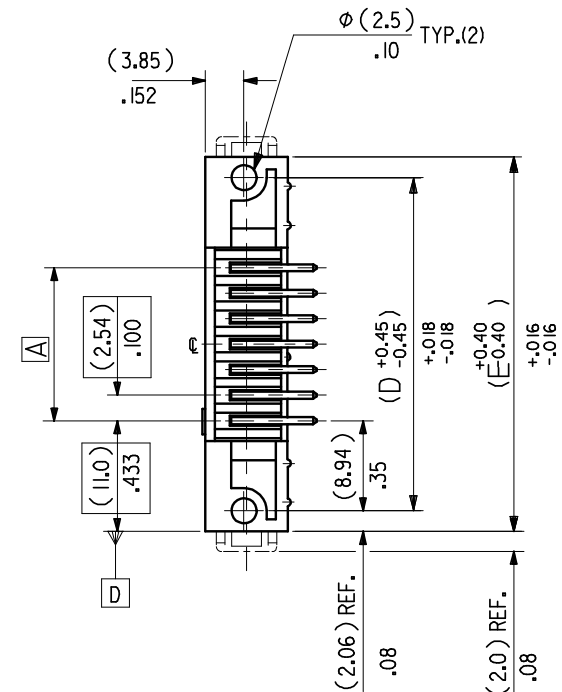
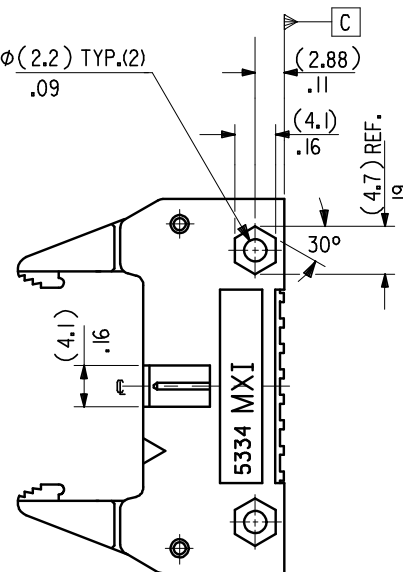
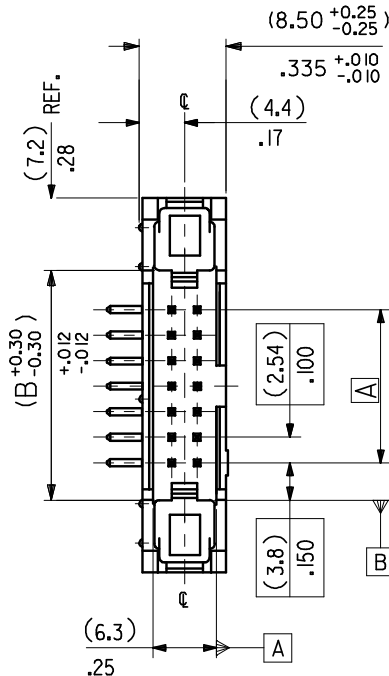
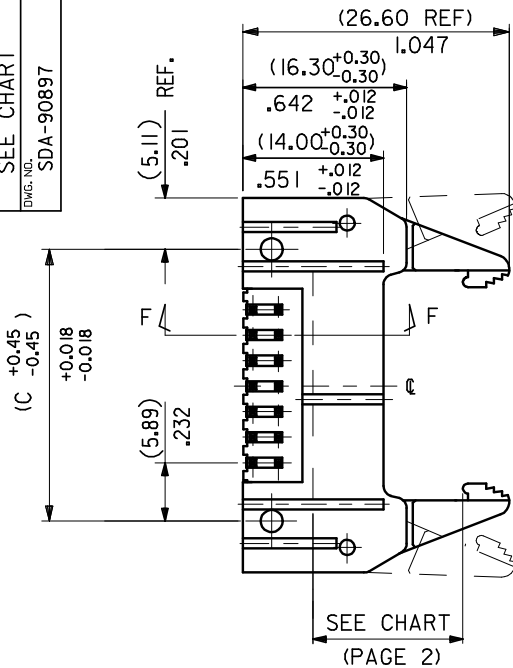


| EU RoHS                                                    | China RoHS |
|------------------------------------------------------------|------------|
| Compliance Status                                          |            |
| Not Reviewed                                               |            |
| REACH SVHC                                                 |            |
| Not Reviewed                                               |            |
| Halogen-Free                                               |            |
| Status                                                     |            |
| Not Reviewed                                               |            |
| Need more information on product environmental compliance? |            |

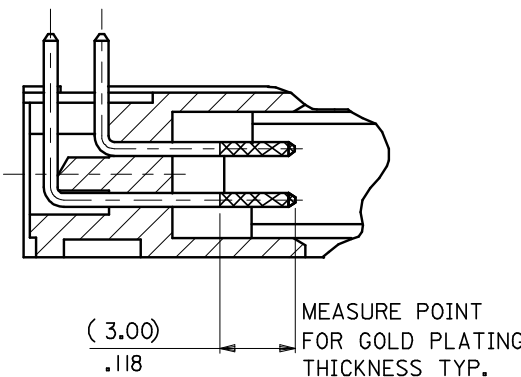
Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)  
  
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series  
90897Series

PART NO.  
SEE CHART  
SDA-90897



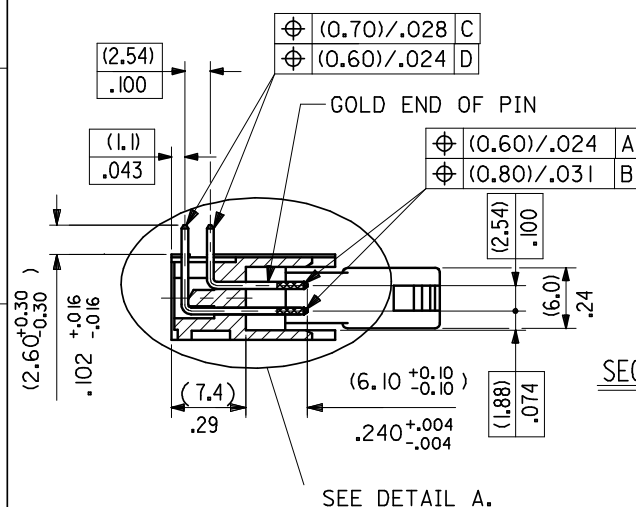
DETAIL A  
DIM'S FOR SELECTIVE  
GOLD PLATING



NOTES:

- 1: FOR MATERIAL SPECIFICATION SEE NOTE 1, ON SHEET 2.
- 2: FOR RECOMMENDED P.C.B.HOLE PATTERN, PART No's AND UNSTATED DIMENSIONS SEE SHEET 2.
- 3: PRODUCT SPEC.No.: ES 9902006

PLEASE  
REFERENCE  
USE ONLY



SECTION F-F

FOR PREVIOUS  
DRAWING ISSUES  
SEE MRI.

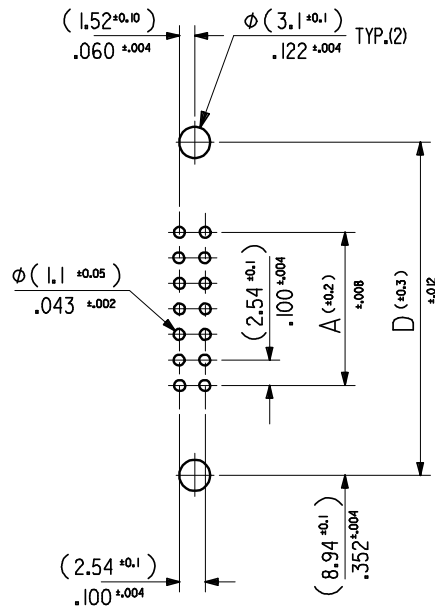
| REVISION | UP-DATE    |
|----------|------------|
| EC No.   | E2004-0792 |
| DRWG     | PSHEAHAN   |
| CHK'd    | 04/02/17   |
| APPR'd   |            |

| THIRD ANGLE PROJECTION                               |                                                                       |
|------------------------------------------------------|-----------------------------------------------------------------------|
| DIMENSIONS SHOWN ( METRIC ) INCH                     |                                                                       |
| UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ±2°   |                                                                       |
| INCH ( METRIC )                                      |                                                                       |
| 3 PLACE ± .008                                       |                                                                       |
| 2 PLACE ± .008                                       | ± 0.20                                                                |
| 1 PLACE                                              | ± 0.20                                                                |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                                                                       |
| DESIGN DIMENSION (PRIMARY)                           | <input checked="" type="checkbox"/> (MM) <input type="checkbox"/> IN. |
| EQUIVALENT DIMENSION (SECONDARY)                     | <input type="checkbox"/> (MM) <input checked="" type="checkbox"/> IN. |

| REVISE ONLY ON CAD SYSTEM                                                       |                                                                                                                     |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| CAD/CAM FILENAME<br>S90897X1<br>DGN                                             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |
| TITLE<br>QF-50 R/A HEADER<br>WITH DIN EJECT LEVERS<br>TO MATE WITH MX-50 FEMALE |                                                                                                                     |
| MOLEX MOLEX EUROPE                                                              | SHEET NO. DATE<br>10F2 94/11/07                                                                                     |
| PART NO.<br>SEE CHART                                                           | DWG NO.<br>SDA-90897                                                                                                |
| SIZE<br>B                                                                       |                                                                                                                     |

PART NO.  
SEE CHART  
SDA-90897

|               |               |               |               |                |            |                |
|---------------|---------------|---------------|---------------|----------------|------------|----------------|
| (78.74)/3.100 | (86.34)/3.400 | (90.52)/3.564 | (96.62)/3.804 | (100.74)/3.966 | 90897-*64* | 64             |
| (73.66)/2.900 | (81.26)/3.200 | (85.44)/3.364 | (91.54)/3.604 | (95.66)/3.766  | -*60*      | 60             |
| (60.96)/2.400 | (68.56)/2.700 | (72.74)/2.864 | (78.84)/3.104 | (82.96)/3.266  | -*50*      | 50             |
| (48.26)/1.900 | (55.86)/2.200 | (60.04)/2.364 | (66.14)/2.604 | (70.26)/2.766  | -*40*      | 40             |
| (40.64)/1.600 | (48.24)/1.900 | (52.42)/2.064 | (58.52)/1.304 | (62.64)/2.466  | -*34*      | 34             |
| (35.56)/1.400 | (43.16)/1.700 | (47.34)/1.864 | (53.44)/2.104 | (57.56)/2.266  | -*30*      | 30             |
| (30.48)/1.200 | (38.08)/1.500 | (42.26)/1.664 | (48.36)/1.904 | (52.48)/2.066  | -*26*      | 26             |
| (22.86)/.900  | (30.46)/1.200 | (34.64)/1.364 | (40.74)/1.604 | (44.86)/1.766  | -*20*      | 20             |
| (17.78)/.700  | (25.38)/1.000 | (29.56)/1.164 | (35.66)/1.404 | (39.78)/1.566  | -*16*      | 16             |
| (15.24)/.600  | (22.84)/.900  | (27.02)/1.064 | (33.12)/1.304 | (37.24)/1.466  | -*14*      | 14             |
| (10.16)/.400  | (17.76)/.700  | (21.94)/.864  | (28.04)/1.104 | (32.16)/1.266  | 90897-*10* | 10             |
| A             | B             | C             | D             | E              | ENG. NO.   | NO.OF<br>CKTS. |



RECOMMENDED P.C.B. HOLE PATTERN.

#### NOTES

##### 1.MATERIAL

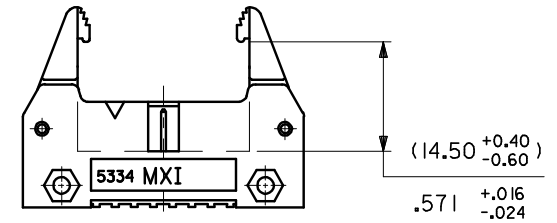
HEADER : GLASS FILLED POLYESTER (UL 94V0), COLOUR - BLACK.  
LEVER : GLASS FILLED POLYESTER (UL 94V0), COLOUR - BLACK.  
PINS : BRASS SIZE (0.635)/.025 .  
SPRING PINS : STEEL

##### 2.PLATING TYPE

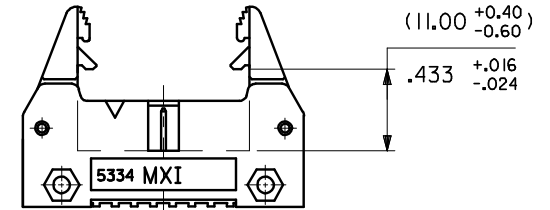
UNDERPLATE FOR ALL PLATING TYPES, (1um)/39uin MIN. NICKEL OVERALL.  
-\*\*\*1 PLATING (0.1um)/4uin MIN GOLD. SOLDER AREA (3um)/118uin MIN TIN  
-\*\*\*2 PLATING (0.76um)/30uin MIN GOLD. SOLDER AREA (3um)/118uin MIN TIN  
-\*\*\*3 PLATING (0.25um)/10uin MIN GOLD. SOLDER AREA (3um)/118uin MIN TIN

FOR PREVIOUS  
DRAWING ISSUES  
SEE MRI.

|                                                                                                  |  |                                                                                 |  |                                                                                                                        |      |
|--------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|------|
| THIRD ANGLE PROJECTION                                                                           |  | REVISE ONLY ON CAD SYSTEM                                                       |  | SH.                                                                                                                    | REV. |
| DIMENSIONS SHOWN ( METRIC ) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ±2°        |  | CAD/CAM FILENAME<br>S90897X2<br>DGN                                             |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |      |
| INCH ( METRIC )<br>3 PLACE ± .008<br>2 PLACE ± .020<br>1 PLACE ±                                 |  | TITLE<br>QF-50 R/A HEADER<br>WITH DIN EJECT LEVERS<br>TO MATE WITH MX-50 FEMALE |  | SHEET NO. DATE<br>20F 94/11/07                                                                                         |      |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                                          |  | MOLEX MOLEX EUROPE                                                              |  | PART NO. DWG NO. SIZE<br>SEE CHART SDA-90897 B                                                                         |      |
| DESIGN DIMENSION (PRIMARY) [X] (MM) [ ] IN.<br>EQUIVALENT DIMENSION (SECONDARY) [ ] (MM) [X] IN. |  | SCALE<br>2:1                                                                    |  |                                                                                                                        |      |



90897-2\*\*\* STRAIN RELIEF VERSION



90897-1\*\*\* NON STRAIN RELIEF VERSION

-1\*\*\* LATCH FOR FEMALE  
WITH NO STRAIN RELIEF

-2\*\*\* LATCH FOR FEMALE  
WITH STRAIN RELIEF

PLATING TYPE

CCT SIZE

PRE-RELEASE  
REFERENCE  
USE ONLY