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Part Number:

0346909203

Status:

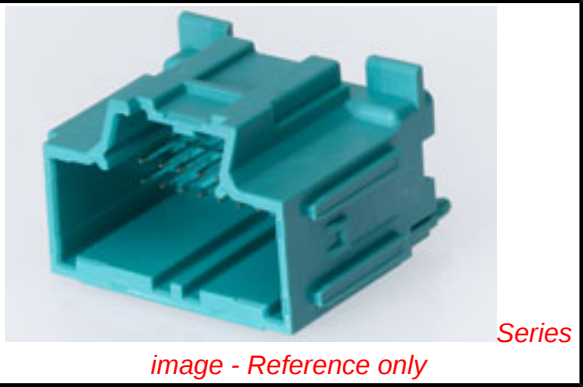
Active

Overview:

stac64\_single\_multipocket\_and\_hybrid\_header\_system

Description:

2.54mm (.100") Pitch Stac64™ Vertical Header, 20 Circuits, Polarization D, Green, Tube



Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Application Specification \(PDF\)](#)

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

| General                        |                                                    |
|--------------------------------|----------------------------------------------------|
| Product Family                 | PCB Headers                                        |
| Series                         | 34690                                              |
| Application                    | Wire-to-Board                                      |
| Comments                       | Polarization D                                     |
| Overview                       | stac64_single_multipocket_and_hybrid_header_system |
| Product Name                   | Stac64™                                            |
| Physical                       |                                                    |
| Breakaway                      | No                                                 |
| Circuits (Loaded)              | 20                                                 |
| Circuits (maximum)             | 20                                                 |
| Color - Resin                  | Green                                              |
| Durability (mating cycles max) | 10                                                 |
| First Mate / Last Break        | No                                                 |
| Glow-Wire Compliant            | No                                                 |
| Guide to Mating Part           | No                                                 |
| Keying to Mating Part          | None                                               |
| Lock to Mating Part            | Yes                                                |
| Material - Metal               | Brass                                              |
| Material - Plating Mating      | Tin                                                |
| Material - Plating Termination | Tin                                                |
| Material - Resin               | High Temperature Thermoplastic                     |
| Number of Rows                 | 2                                                  |
| Orientation                    | Vertical                                           |
| PC Tail Length (in)            | 0.131 In                                           |
| PC Tail Length (mm)            | 3.33 mm                                            |
| PCB Locator                    | Yes                                                |
| PCB Retention                  | None                                               |
| PCB Thickness Recommended (in) | 0.062 In                                           |
| PCB Thickness Recommended (mm) | 1.57 mm                                            |
| Packaging Type                 | Tube                                               |
| 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                                            |
| Polarized to Mating Part       | Yes                                                |
| Polarized to PCB               | Yes                                                |
| Robotic Placement              | None                                               |
| Shrouded                       | Yes                                                |
| Stackable                      | No                                                 |
| Surface Mount Compatible (SMC) | N/A                                                |
| Temperature Range - Operating  | -40°C to +100°C                                    |
| Termination Interface: Style   | Through Hole                                       |

Electrical

EU RoHS

ELV and RoHS Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

China RoHS



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

34690Series

Mates With

31408 USCAR 2.54mm (.100") Pitch Receptacle, 31372 5.25mm (.206") Pitch Hybrid Receptical Assembly

|                                                |                              |
|------------------------------------------------|------------------------------|
| Current - Maximum per Contact                  | 30A                          |
| Voltage - Maximum                              | 500V                         |
| <b>Solder Process Data</b>                     |                              |
| Duration at Max. Process Temperature (seconds) | 40                           |
| Lead-free Process Capability                   | SMC & Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 3                            |
| Process Temperature max. C                     | 260                          |

**Material Info**

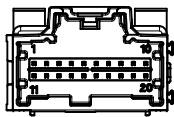
**Reference - Drawing Numbers**

|                           |              |
|---------------------------|--------------|
| Application Specification | AS-34690-000 |
| Packaging Specification   | PK-31301-063 |
| Sales Drawing             | SD-34690-100 |

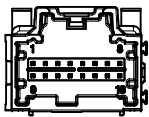
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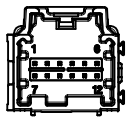
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



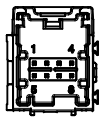
20 CIRCUIT  
VERTICAL HEADER



16 CIRCUIT  
VERTICAL HEADER



12 CIRCUIT  
VERTICAL HEADER



8 CIRCUIT  
VERTICAL HEADER

(POLARIZATION OPTION 'A' SHOWN ON ABOVE HEADERS)

| MATERIAL NUMBER                |                                | CKT<br>SIZE | DESCRIPTION                        | POL | COLOR |
|--------------------------------|--------------------------------|-------------|------------------------------------|-----|-------|
| TRAY PACKAGING<br>PK-31300-892 | TUBE PACKAGING<br>PK-31301-063 |             |                                    |     |       |
| 34690-0200                     | 34690-9200                     | 20          | STAC64 VERTICAL<br>HEADER ASSEMBLY | A   | BLACK |
| 34690-0201                     | 34690-9201                     | 20          | STAC64 VERTICAL<br>HEADER ASSEMBLY | B   | GREY  |
| 34690-0202                     | 34690-9202                     | 20          | STAC64 VERTICAL<br>HEADER ASSEMBLY | C   | BROWN |
| 34690-0203                     | 34690-9203                     | 20          | STAC64 VERTICAL<br>HEADER ASSEMBLY | D   | GREEN |
| 34690-0160                     | 34690-9160                     | 16          | STAC64 VERTICAL<br>HEADER ASSEMBLY | A   | BLACK |
| 34690-0161                     | 34690-9161                     | 16          | STAC64 VERTICAL<br>HEADER ASSEMBLY | B   | GREY  |
| 34690-0162                     | 34690-9162                     | 16          | STAC64 VERTICAL<br>HEADER ASSEMBLY | C   | BROWN |
| 34690-0120                     | 34690-9120                     | 12          | STAC64 VERTICAL<br>HEADER ASSEMBLY | A   | BLACK |
| 34690-0121                     | 34690-9121                     | 12          | STAC64 VERTICAL<br>HEADER ASSEMBLY | B   | GREY  |
| 34690-0122                     | 34690-9122                     | 12          | STAC64 VERTICAL<br>HEADER ASSEMBLY | C   | BROWN |
| 34690-0080                     | 34690-9080                     | 8           | STAC64 VERTICAL<br>HEADER ASSEMBLY | A   | BLACK |
| 34690-0081                     | 34690-9081                     | 8           | STAC64 VERTICAL<br>HEADER ASSEMBLY | B   | GREY  |
| 34690-0082                     | 34690-9082                     | 8           | STAC64 VERTICAL<br>HEADER ASSEMBLY | C   | BROWN |

NOTES: VALID UNLESS OTHERWISE SPECIFIED  
1. GENERAL:

a. CONNECTOR HEADER MUST BE VALIDATED TO THE FOLLOWING FUNCTIONAL REQUIREMENTS:

POLARIZATION FEATURE EFFECTIVENESS = SEE PRODUCT SPECIFICATION

PIN RETENTION = USCAR-2 REV 4

SOLDERABILITY = SMES-152

b. APPLICATION REQUIREMENTS (REFERENCE ONLY) FOR:

SEE APPLICATION SPECIFICATION = AS-34690-000

SEE PRODUCT SPECIFICATION = PS-31408-100

c. PACKAGING SPECIFICATION: SEE CHART

2. DESIGN: MATERIALS:

d. SHROUD (PLASTIC HOUSING):  
RESIN = SPS 30%GF - 20% REGRIND MAX. BY WEIGHT

b. 0.64MM PINS:  
BASE MATERIAL: C26000  
PLATING TYPE: AS NOTED

c. PIN ALIGNMENT PLATE: MYLAR

3. PLATING REQUIREMENTS:

a. UNDERPLATING - OVERALL NICKEL

b. OVERPLATING - OVERALL TIN

|                                                                                                                                        |                                  |                                          |         |                                                                                                                                  |                    |                                                                  |                        |                           |  |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------|------------------------|---------------------------|--|
| UPDATED DIMENSIONS<br>EC NO: UAU2010-1718<br>2010/05/04<br>DRWN:JDNWJ<br>CHKD:CDILLON<br>04/18/07<br>APPR:SMARCEAU<br>2010/05/05<br>H1 | QUALITY<br>SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |         | DIMENSION STYLE<br>MM ONLY                                                                                                       |                    | SCALE<br>2:1                                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |
|                                                                                                                                        |                                  | mm                                       | INCH    | DRAWN BY<br>MBAILEY                                                                                                              | DATE<br>10/02/06   | TITLE<br>STAC64 SINGLE BAY<br>VERTICAL ASSEMBLY<br>SALES DRAWING |                        |                           |  |
|                                                                                                                                        |                                  | 4 PLACES ± .005                          | ± .0005 | CHECKED BY<br>CDILLON                                                                                                            | DATE<br>04/18/07   | MATERIAL NO.<br>SD-34690-100                                     |                        |                           |  |
|                                                                                                                                        |                                  | 2 PLACES ± 0.13                          | ± .005  | APPROVED BY<br>SMARCEAU                                                                                                          | DATE<br>2010/05/04 | DOCUMENT NO.<br>SD-34690-100                                     |                        |                           |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                             |                                  | SIZE<br>D                                |         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    | SHEET NO.<br>1 OF 2                                              |                        |                           |  |

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

