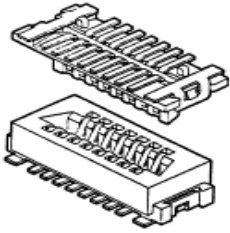


**91921-31131LF - Conan® : I - Industrial Series; Mezzanine Receptacle, SMT; 1mm Pitch; 31p**



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## Mating Half

- 91901-31131
- 91901-31231
- 91901-31331
- 91901-31531

## Specifications

### Approvals / Certifications

|                                   |                     |
|-----------------------------------|---------------------|
| <b>UL File Number</b>             | E66906              |
| <b>CSA File Number</b>            | LR46923             |
| <b>Approvals / Certifications</b> | UL and CSA Approved |

### Mechanical

|                                   |                            |
|-----------------------------------|----------------------------|
| <b>Durability (Mating cycles)</b> | 30 Mating cycles           |
| <b>Insertion force</b>            | 125 grams per Contact max. |
| <b>Withdrawal Force</b>           | 25 grams per Contact min.  |
| <b>Retention force</b>            | 44N min.                   |
| <b>Wipe (Contact)</b>             | 0.64 mm (0.025 in.)        |

### Dimensional

|                           |   |
|---------------------------|---|
| <b>Height (Mated)</b>     | 7 mm<br>6 mm<br>5 mm<br>4.15 mm<br>4.5 mm |
| <b>Stack Height</b>       | determined by header                      |
| <b>Height (Conductor)</b> | 3.28 mm (0.129 in.)                       |

### Electrical

|                                |               |
|--------------------------------|---------------|
| <b>Current rating</b>          | 1 amp/Contact |
| <b>Resistance (Contact)</b>    | 30 m ohms     |
| <b>Resistance (Insulation)</b> | 1000 M ohms   |
| <b>Voltage rating</b>          | 500 volts     |

### Environmental

|                    |           |
|--------------------|-----------|
| <b>Environment</b> | Demanding |
|--------------------|-----------|

### General

|                    |            |
|--------------------|------------|
| <b>Application</b> | Industrial |
| <b>Gender</b>      | Receptacle |

|   |  |
|---|--|
| <b>Number of contacts (Total)</b>                   | 31   |
| <b>Packaging</b>                                    | Tape and Reel                              |
| <b>Mating half</b>                                  | Mates with all Conan® 31 Position Headers  |
| <b>Operating Environment</b>                        | Industrial, Harsh Environment              |
| <b>Mounting</b>                                     |  |
| <b>Polarization pegs (Board)</b>                    | No   |
| <b>Retention feature (Board)</b>                    | Surface Mount Solder Tab                   |
| <b>Solder process</b>                               | Infrared and Vapor - Phase Reflow          |
| <b>Other Features</b>                               |  |
| <b>Popular Configuration (Customer Prototyping)</b> | Not Applicable                             |
| <b>Popular Configuration (Customer Production)</b>  | Not Applicable                             |
| <b>Most Popular Configuration</b>                   | Not Applicable                             |
| <b>Packaging (Type)</b>                             | Tape and Reel with pickup caps             |
| <b>Vacuum Pick-up Cap</b>                           | Yes  |
| <b>Literature</b>                                   | ELXCONANIND1211EA4                         |
| <b>Physical</b>                                     |  |
| <b>Color (Housing)</b>                              | Natural                                    |
| <b>Material (Contact)</b>                           | Copper Alloy                               |
| <b>Material (Housing)</b>                           | LCP  |
| <b>Plating (Contact area)</b>                       | 0.38 µm (15 µin.) GXT™                     |
| <b>Plating (Tail)</b>                               | 2.54 µm (100 µin.) Pure Tin                |
| <b>Underplating (Contact)</b>                       | 1.27 µm (50 µin.) Nickel                   |
| <b>Plating and Performance (Classification)</b>     | IMFG per Battelle, Class 2a, 20 days mated |
| <b>Resistance to Solder Heat</b>                    | 240°C for 30 sec                           |
| <b>Temperature (Operating - continuous)</b>         | +85°C max.                                 |
| <b>Temperature (Range)</b>                          | -55°C to +130°C                            |