



# Component Specification

**C01311**

**2.00mm Pitch Jumper Sockets**  
**October 2021**

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1. **DESCRIPTION OF CONNECTOR AND INTENDED APPLICATION**

A range of 2mm pitch jumper sockets, consisting of a moulded outer body holding phosphor bronze spring contacts. The contacts are either tin plated overall, or selectively gold plated on the contact area. The component is intended to interconnect two adjacent 0.50mm square or round section pins on 2mm pitch centres. Connectors can be mounted side by side in either direction on 2mm pitch centres.

2. **RATINGS**

2.1. **Electrical Characteristics**

|                                                                               |                             |
|-------------------------------------------------------------------------------|-----------------------------|
| Current Rating, 25°C ambient.....                                             | 2A max                      |
| Working Voltage (at sea level).....                                           | 250V DC nominal or AC peak  |
| Voltage Proof (at sea level).....                                             | 500V rms at 50Hz            |
| Contact Resistance:                                                           |                             |
| Initial .....                                                                 | 20mΩ max Tin, 15mΩ max Gold |
| After conditioning.....                                                       | 25mΩ max Tin, 20mΩ max Gold |
| Insulation Resistance (measured between two pins not electrically connected): |                             |
| Initial .....                                                                 | 1,000MΩ min                 |
| Hot after conditioning .....                                                  | 100MΩ min                   |

2.2. **Environmental Characteristics**

|                                   |                |
|-----------------------------------|----------------|
| Environmental Classification..... | 40/85/21       |
| Operating Temperature Range.....  | -40°C to +85°C |
| Low Air Pressure Severity.....    | 300 mbar       |

2.3. **Mechanical Characteristics**

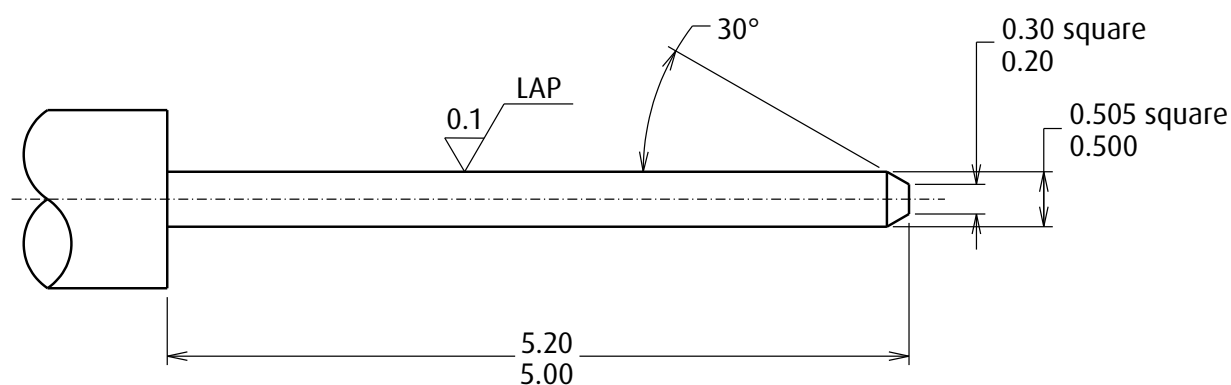
|                                                          |                       |
|----------------------------------------------------------|-----------------------|
| Durability:                                              |                       |
| Gold on contact area.....                                | 300 mating operations |
| Tin on contact area.....                                 | 50 mating operations  |
| High Temperature, Long Term (current as in 2.1.).....    | 1,000 hours at 70°C   |
| High Temperature, Short Term (no electrical load) .....  | 250 hours at 85°C     |
| Clip Retention in Housing .....                          | 5.0N min              |
| Insertion force (using gauges shown in Appendix 1).....  | 10.0N max             |
| Withdrawal force (using gauges shown in Appendix 1)..... | 1.0N max              |

**APPENDICES NOTES:**

1. All dimensions are in millimetres.

**APPENDIX 1 – GAUGES****NOTES:**

1. Material = Steel to BS1407 or equivalent.
2. Gauging surfaces to be hardened/ground, 650 HV5 min.
3. These gauges to be used for testing fully assembled components only.
4. Ultimate wear limit 0.005mm is allowable on gauging dimensions.

**A1.1. Insertion and Withdrawal Gauge****A1.2. Holding Gauge**