



Component Specification

CO1312

2.00mm Pitch Jumper Sockets November 2022

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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. <u>RATINGS</u>

2.1. Electrical Characteristics

| Current Rating, 25°C ambient Working Voltage (at sea level) | | | |
|---|---|--|--|
| Voltage Proof (at sea level) | | | |
| Contact Resistance: | | | |
| Initial | 20m Ω max Tin, 15m Ω max Gold | | |
| After conditioning | 25m Ω max Tin, 20m Ω 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 | |

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.
- These gauges to be used for testing fully assembled components only.
 Ultimate wear limit 0.005mm is allowable on gauging dimensions.

A1.1. Insertion and Withdrawal Gauge



A1.2. Holding Gauge

