

Component Specification

C00312

2.54mm Pitch Jumper Sockets October 2021

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

A range of 2.54mm 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 0.64mm square or round section pins on 2.54mm pitch centres. Connectors can be mounted side by side in either direction on 2.54mm pitch centres. Double and single contact versions are available, with either open or closed tops on the single row versions.

2. **RATINGS**

2.1. Electrical Characteristics

Current (at ambient temperature):				
M758X range	1A max			
Others	3A max			
Working Voltage (at sea level)	250V DC nominal or AC peak			
Voltage Proof (at sea level):				
M758X range	500V AC			
Others				
Contact Resistance:				
Initial	20mΩ max			
After conditioning	30mΩ max Tin, 25mΩ max Gold			
Insulation Resistance (measured between two pins not electrically connected):				
M758X range				
Others, initial	100,000MΩ min			
Others, hot after conditioning	1,000MΩ min			

2.2. Environmental Characteristics

Environmental Classification	40/85/21
Low Air Pressure Severity	
Operating Temperature Range:	
M758X range	55°C to +105°C
Others	40°C to +85°C

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
Contact Holding Force (with 0.64mm square pin)	100gram deadweight
Insertion force (0.64mm square pin):	
M758X range	13.7N max, 2.0N min
Others	14.5N max, 5.0N min
Withdrawal force:	
M758X range	7.4N max, 1.0N min
Others	5.0N max. 1.0N min

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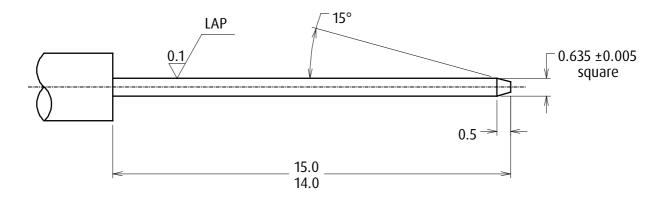


APPENDIX 1 - GAUGES

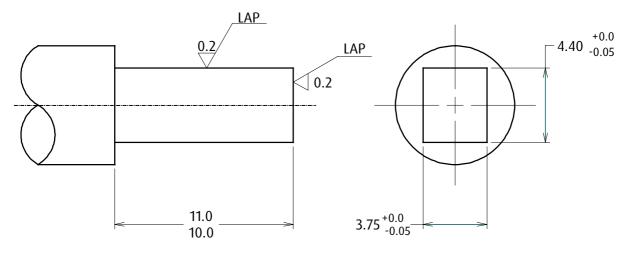
NOTES:

- 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. Engaging and Separating Gauge



A1.2. Contact Push-out Gauge



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