



Component Specification

C00611

Sub-Miniature Sockets November 2022

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1. DESCRIPTION OF CONNECTOR AND INTENDED APPLICATION

The sub-miniature sockets are designed to allow I.C. devices to be mounted onto printed circuit boards, giving virtually zero above-board profile. The added advantage is of allowing tracks to be taken between the sockets, spaced on 2.54mm pitch centres. The socket is a clearance fit into a Ø1mm hole, and has a closed body design to eliminate solder wicking.

The socket consists of an outer brass shell, with tapered entry for I.C. leads, and an inner spring contact. This contact is manufactured from beryllium copper with four contact fingers. Both shell and spring contact have a choice of gold or tin finish with nickel undercoat.

This high reliability socket is designed to meet severe environmental conditions of shock, vibration, bump, etc. It is intended for applications where space is limited.

2. RATINGS

2.1. Electrical Characteristics

Current Rating (in isolation):		
25°C ambient	2.0A max	
85°C ambient	1.75A max	
Contact Resistance (maximum):		
Initial		
After conditioning	25m Ω	

2.2. Environmental Characteristics

Environmental classification	55/125/56 at 95% RH
Operating Temperature Range	55°C to +125°C
Low Air Pressure Severity	300 mbar
Vibration Severity	
Bump Severity	
Shock Severity	981m/s² (100G) for 6ms

2.3. Mechanical Characteristics

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Gold on contact area	500 mating operations			
Tin on contact area	50 mating operations			
Clip retention in body				
Minimum retention force may be 10N from a sample of 10 sockets,				
providing the average of the samples is 22N.				
Insertion Force:				
Initial	6.0N max			
After Conditioning	2.0N min			

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APPENDICES NOTES:

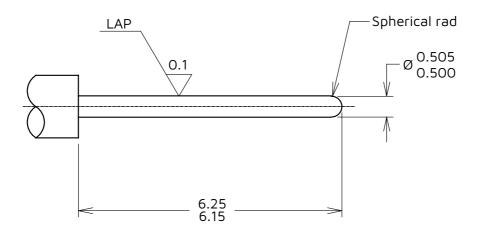
- 1. Third angle projection is used where projected views are shown.
- 2. All dimensions are in millimetres.
- 3. For explanation of dimensions, etc. see BS8888.
- 4. Unless otherwise stated, all dimensions are maxima.

APPENDIX 1 - GAUGES

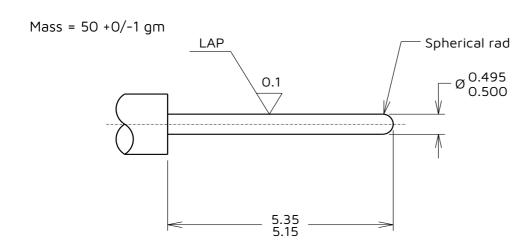
NOTES:

- 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 (After conditioning)



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