

COMPONENT SPECIFICATION0.8mm P C BOARD SOCKETSFEB 2009

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1. SCOPE

This Specification applies to 0.8mm PCB Sockets.

2. RELATED DOCUMENTS

BS6001 Sampling procedures and tables for inspection by attributes.

BS9000 General requirements for electronic components of assessed quality.

QI-51 In process inspection procedure.

3. DESCRIPTION OF COMPONENT AND INTENDED APPLICATION

A range of Sockets to be used to interface components with 0.8mm diameter pins to printed circuit boards; allowing a change of components when desired.

4. MARKING OF COMPONENT AND/OR PACKAGE

The marking shall appear on the package and shall be of the following style:-

H X X X X - X X

Product Group Series No Contact Finish

Series or Part Code Number - See Appendix of this Specification

Contact Finish -05 Gold Contact, Gold Body
 01 Gold Contact, Tin Body
 T6 Tin Contact, Tin Body

The batch code shall appear on the package and shall be of the following style:-

XXX XX X

Batch No Week No Year No (last digit)

The batch number is 001 to 999, repeated each week.

5. ORDERING INFORMATION

The following information is to be given when ordering parts to this Specification:-

- a) The individual order code number as described in clause 4 of this Specification.
- b) Details of any special requirement.

6. OUTLINE DRAWINGS

See Appendix A of this Specification.

7. RATINGS

7.1. Electrical

7.1.1. Current

- a) Maximum current per socket in isolation at ambient temperature of 25°C 10A
- b) Maximum current per socket in isolation at ambient temperature of 85°C 7.5A

7.2. Environmental

Environmental classification 55/125/21

Vibration severity 10Hz to 2000 M² at 0.75mm/98m/s²
10g duration 6 hours.

7.3. Endurance

- 7.3.1. Mechanical 1000 insertions/extractions (Gold)
100 insertions/extractions (Tin)

- 7.3.2. High temperature long term 50 hours at 85°C
Maximum current per socket in isolation at ambient temperature of 85°C 7.5A

8. CHARACTERISTICS

8.1. Electrical

Contact resistance 10 mΩ

8.2. Mechanical

- 8.2.1. Maximum insertion force with 0.80 diameter pin 5N
Minimum insertion force with 0.80 diameter pin 1.5N
 - 8.2.2. Maximum withdrawal force with 0.80 diameter pin 3.0N
Minimum withdrawal force with 0.80 diameter pin 1.0N
 - 8.2.3. Mating plug diameter 0.6 - 0.85
 - 8.2.4. Minimum retention force contact clip from body from a sample of 10 contacts may be 18N, providing the average of the samples is 27N minimum.
- 8.3. Resistance to Fluids

The Sockets are resistant to the following fluids listed on Test 2RA of BS2011, Isopropanol, Trichlorotrifluoroethane, Trichloroethane, Trichloroethylene.

9. CERTIFIED TEST RESULTS

Certified test records shall be prepared in accordance with 1.1.11. of BS 9520.

10. INSPECTION REQUIREMENTS

To be in accordance with QA33 : QA Instruction 33 for 0.8mm PCB Socket