

General requirements for a system for electronic components of assessed quality —

**Part 7: Specification of lot formation,
release procedures and certified test
records**

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- BEAMA Ltd.
- British Standards Society
- British Telecommunications plc
- Department of Trade and Industry (Electronics Applications Division)
- Electronic Components Industry Federation
- Electronic Engineering Association
- Institution of Electrical Engineers
- Ministry of Defence
- National Supervising Inspectorate
- Society of British Aerospace Companies Limited
- Telecommunication Engineering and Manufacturing Association (TEMA)

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Foreword

This Part of BS 9000 has been prepared under the direction of the Electronic Components Standards Policy Committee (ECL/-). It forms part of a revision of BS 9000-1:1981 and BS 9005:1985, both of which are now withdrawn. The revision comprises a vital and necessary restructuring of those standards coupled with the incorporation of text from BS 9000-2:1972 and from various circular letters from PD 9004. The restructuring has resulted in BS 9000-1:1981 and BS 9005:1985 being replaced by the following publications.

- *Part 1: Specification of general procedures;*
- *Part 4: Specification of procedures for the approval of an organization;*
- *Part 5: Specification of qualification approval and conformance testing procedures;*
- *Part 6: Specification of capability approval procedures;*
- *Part 7: Specification of lot formation, release procedures and certified test records;*
- *Part 8: Drafting requirements;*
- *Section 8.1: Generic, sectional and blank detail specifications produced under qualification approval;*
- *Section 8.2: Generic and sectional specifications produced under capability approval.*

NOTE A cross-reference between BS 9000-1:1981 and this revision is given in Appendix A, Table 1 of BS 9000-1:1989.

These publications describe, and specify, the BS 9000 system. They are not intended to apply to the United Kingdom implementation of either the CECC¹⁾ or IECQ²⁾ systems.

It has been decided, after considering the implications of the intended completion of the Internal Market by December 1992, that a complete “stand alone” publication describing and specifying the UK implementation of the CECC system is needed. A similar “stand alone” publication for the UK implementation of the IECQ system is also envisaged. BS 9000-2 and BS 9000-3 will be revised to implement these decisions.

This revision of BS 9000-1:1981 gives a more complete description of the requirements for capability approval and for the drafting of specifications. The revision will be applied to all approval exercises and to all generic, sectional and blank detail specifications drafted after the date of its publication. The requirements contained in the revision will also apply to the revision of existing BS 9000 standards.

BS 9000-4 specifies procedures for the approval of organizations. It is intended that the appropriate Part of BS 5750 be invoked in due course as a requirement for approval. It should be noted that BS 9000-4 contains requirements specific to the System³⁾ not covered by BS 5750.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

¹⁾ CENELEC Electronic Components Committee (System for Europe).

²⁾ IEC Quality Assessment System for Electronic Components.

³⁾ For definition of “the System”, see 2.1.1 of BS 9000-1:1989.

1 Scope

This Part of BS 9000 specifies the procedures for the formation of lots, and their release under the System.

NOTE The titles of the publications referred to in this standard are listed on the inside back cover.

2 Acceptance sampling procedures

2.1 Acceptance sampling for inspection by attributes

Unless otherwise specified in the generic specification, the statistical sampling procedures and the tables to be used shall be those specified in BS 6001-1.

2.2 Implementation of BS 6001-1

For the purpose of implementing BS 6001-1 the following designations and definitions shall apply.

a) *Responsible authority*. The term “responsible authority”, as used in BS 6000-1 shall be, for the purposes of implementing that standard in the System, as designated in Table 1.

Table 1 — Designation of the term “responsible authority” for the purposes of implementing BS 6000-1:1972

Clause in BS 6001-1:1972	Designation for use in the BS 9000 system
1.1	BS 9000-1, BS 9000-4 to BS 9000-7 and BS 9000-8.1 and BS 9000-8.2
4.5	Detail specification
5.4	Manufacturer’s approved person
6.2	Manufacturer’s approved person
6.4	Manufacturer’s approved person
8.1	BS 9000-1, BS 9000-4 to BS 9000-7 and BS 9000-8.1 and BS 9000-8.2
8.3.3 [item 4)]	Manufacturer’s approved person
8.4	National Supervising Inspectorate
9.2	Detail specification
9.4	Manufacturer’s approved person

b) *Unit of product*. The electronic component defined and described in the detail specification.

c) *Lots*. The inspection lot as defined in 2.6.14 of BS 9000-1:1989.

d) *Consecutive lots*. Production lots following in an uninterrupted succession submitted for acceptance, when obtained from continuous production.

e) *Continuous production*. The circumstances in which:

1) there has been no design or process changes of the electronic components that may affect qualification approval (see 3.7.1 of BS 9000-5:1989) or capability approval (see 5.1 of BS 9000-6:1989);

2) there has been no change in the approved location (see 3.7.2 of BS 9000-5:1989 and 5.2 of BS 9000-6:1989);

3) there has been no break in production exceeding six months or, exceptionally, a longer period as agreed with the National Supervising Inspectorate.

2.3 Supplementary procedure for reduced inspection

2.3.1 Unless otherwise stated in the generic specification, it is permitted to use a reduced inspection procedure for the release tests provided that the conditions detailed in 2.3.2 are met. This supplementary procedure applies only to group B tests (for qualification approval as described in Appendix E of BS 9000-8.1:1989) and to those release tests of a similar nature used for capability approval.

2.3.2 A reduced inspection procedure is permitted provided that:

a) the requirements for the change from normal to reduced inspection as given in 8.3.3 of BS 6001-1:1972 have been met and in addition that the limit number given in Table VIII of BS 6001-1:1972 is greater than zero;

b) there have been zero failures in the samples from ten successive inspection lots submitted to testing.

NOTE This supplementary procedure allows a manufacturer to carry out the appropriate test at normal inspection at intervals of 3 months instead of on a lot-by-lot basis.

2.3.3 A single failed inspection lot in this 3-monthly sample (see note to 2.3.2) shall cause reversion to the lot-by-lot inspection until such time as the conditions for reduced inspection (see 2.3.2) have again been satisfied. In the event of such a failure, the lot-by-lot inspection may continue under reduced inspection as defined in BS 6001-1 provided that the conditions given in 8.3.3 and Table VIII of BS 6001-1:1972 are still satisfied, otherwise reversion to normal inspection as specified in 8.3.4 of BS 6001-1:1972 shall apply.