

Sectional specification for pulse transformers of assessed quality for use in electronic equipment: full assessment level

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- Electricity Supply Industry in England and Wales*
- Electronic Components Industry Federation*
- Electronic Engineering Association*
- Institution of Electronic and Radio Engineers
- Ministry of Defence*
- National Supervising Inspectorate*
- Post Office*
- Society of British Aerospace Companies Limited*
- Telecommunication Engineering and Manufacturing Association (TEMA)*
- Trades Union Congress

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

- Engineering Equipment Users' Association
- The Transmission and Distribution Association (BEAMA)
- United Kingdom Atomic Energy Authority

This British Standard, having been prepared under the direction of the Electronic Components Standards Committee, was published under the authority of the Executive Board on 30 November 1978

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Foreword

This standard specifies the inspection requirements for transformers released under the BS 9720 capability approval scheme. Attention is drawn to the foreword to BS 9720, in which the use of this document is described in the following terms.

- a) A potential customer makes an enquiry to the manufacturer for a component within the scope of capability published in PD 9002.
- b) The specification is negotiated between the manufacturer and the customer until an agreed customer's detail specification (based on the blank attached to this document) is finalized.
- c) The component is inspected and released in accordance with clause 5 of this specification, as described in the customer's detail specification.

This standard may be used to enlarge upon the specifications (BS 9721, BS 9722, BS 9727 and BS 9728) for signal and power transformers where they are not sufficient in their own right even though the waveform may approach that which is appropriate to these specifications.

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.

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Summary of pages

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

This British Standard specifies the inspection requirements for pulse transformers for use in electronic equipment, at the full assessment level, released under the BS 9000 capability approval scheme. For the purposes of this standard a pulse transformer is a component that is essentially concerned with unidirectional pulses and the transfer of the energy and signals of these pulses from one section of a circuit to another. Whilst no specific dividing line is practicable, low power pulse transformers are regarded as transferring information and high power pulse transformers are regarded as transferring power.

This standard includes a typical format for a customer's detail specification (blank). The specification should be completed and agreed between the manufacturer and the customer in accordance with **2.6.1** of BS 9720.

2 General requirements

When a customer requires a pulse transformer that falls within the scope of a manufacturer's capability approval, a customer's detail specification shall be prepared.

The completed specification will be given an identity by the manufacturer only after its contents have been agreed by the customer, and it will then be considered a contractual part of the order. Copies of all agreed customer's detail specifications shall be retained by the manufacturer's approved Chief Inspector.

3 Related documents

BS 6001, *Sampling procedures and tables for inspection by attributes*.

BS 9000, *General requirements for electronic components of assessed quality*.

BS 9720, *Custom-built transformers and inductors of assessed quality: generic data and methods of test*.

4 Ratings and characteristics

4.1 The customer and the manufacturer shall agree on the ratings and characteristics included in the customer's detail specification. Instructions are given in the customer detail specification (blank) for the completion of mandatory and optional requirements.

4.2 For those ratings and characteristics that are listed in **1.1.12** of BS 9720:1976, values shall preferably be selected from those given.

5 Inspection requirements

5.1 Pulse transformers for use in electronic equipment and released under the BS 9720 capability approval scheme shall be subjected to the tests listed in the following schedule.

Tests marked with an asterisk (*) shall be performed only if the completed customer's detail specification states that they are needed.

5.2 Tests shown in bold type are mandatory.

5.3 Where a subgroup contains more than one test, the tests shall be carried out in the order specified in the following schedule.

5.4 Specimens submitted to tests marked (D) shall not be accepted for release under BS 9000 (see **2.6.5** of BS 9000-1).