BRITISH STANDARD

BS 9721:1985

Sectional specification for signal transformers of assessed quality for use in electronic equipment for capability approval

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Committees responsible for this British Standard

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BEAMA Transmission and Distribution Association
Electronic Components Industry Federation
Electronic Engineering Association
Engineering Equipment and Materials Users' Association
Ministry of Defence
National Supervising Inspectorate
Society of British Aerospace Companies Limited
Telecommunications Engineering and Manufacturing Association (TEMA)
United Kingdom Atomic Energy Authority

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Contents

		Page
Committees responsible		Inside front cover
Foreword		ii
1	Scope	1
2	Related documents	1
3	Preparation of the detail specification	1
4	Inspection requirements to be listed in the detail specification	2
5	Detail specification	2

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Foreword

This revised British Standard has been prepared under the direction of the Electronic Components Standards Committee. It is intended to be used for the preparation of detail specifications for signal transformers released under the terms of the BS 9000/BS 9720 capability approval procedure. In this edition the format of the blank detail specification has been simplified and the recommended test schedule modified, to accord with the experience gained in operating the procedure since the first edition, and clear guidance is given on the suitable test inspection levels. Changes brought about by the revision of BS 9720 are also incorporated where appropriate. As an assessment level for the document is now inappropriate, this standard supersedes both BS 9721:1978 and BS 9722:1978, which are withdrawn.

It is intended for use by the following originators.

a) A customer wishing to procure signal transformers that are within the scope of the approved capability of his supplying component manufacturer, e.g. for customer's detail specifications (CDSs).

b) A capability approved manufacturer of signal transformers wishing to prepare specifications for his own products which are within the scope of his capability approval.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10 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.

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1 Scope

This British Standard specifies inspection requirements and tests from which a selection is made when preparing a detail specification for signal transformers to be released under the terms of BS 9720 capability approval. It includes a blank detail specification (BDS), which shows the format, and indicates which tests are considered to be appropriate to this type of component; although the final selection of tests to be included in the inspection schedule is at the discretion of the specification writer. It also lists appropriate ratings and characteristics.

The components covered by this standard are essentially concerned with uni-directional and bi-directional transfer of signals (information) from one section of a circuit to another. These signals may have some power content and may cover a band of frequencies.

2 Related documents

BS 2011, *Basic environmental testing procedures*.

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

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

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

PD 9002, *BS 9000 and BS CECC qualified products list*.

NOTE BS 6001 and BS 9720 should be available for reference when preparing detail specifications.

3 Preparation of the detail specification

3.1 General

A detail specification shall be prepared in accordance with **2.6.1** of BS 9720:1983.

NOTE 1 The detail specification takes the form of the BDS shown in clause **5**, particularly in respect of the front page format and, in principle, in respect of the presentation of the inspection requirements.

NOTE 2 All the tests shown in the BDS are taken from BS 9720. Those shown in **bold type** concern operating characteristics of fundamental importance and it is *strongly recommended* that these are selected by the specification writer for inclusion in the detail specification. The tests shown in plain type are listed for the convenience of the specification writer, and tests should be selected from them according to the particular application of the component.

NOTE 3 Over-specification may carry an economic penalty. However, the specification writer may specify tests and sampling levels different from, less than, or additional to those given in the BDS.

3.2 Particular requirements

3.2.1 Where additional tests of a type not defined or invoked in BS 9720 are required, these shall be fully specified in the detail specification.

3.2.2 Any tests considered as being destructive shall be so denoted in the test schedule by the addition of the notation "(D)".

NOTE The use of this notation is not illustrated in the BDS.

3.2.3 Tests shall be grouped in the schedule according to the level of sampling required and, where indicated [see **4.1** b)], in the order of testing required. Where 100 % testing is not required, inspection levels and acceptable quality levels shall be selected from BS 6001.

3.2.4 The completed detail specification shall be allocated a component identity number and issue status by the originator.

NOTE 1 This number is chosen by the originator (manufacturer or customer) within his own system. It is thus not subject to any external rules or codification.

NOTE 2 In the special case of a manufacturer's detail specification for a standard catalogue item which the manufacturer wishes to be listed in PD 9002, BSI will allocate an appropriate number in accordance with **15.11** of BS 9000-1:1981.

3.2.5 Additionally the detail specification shall include a number allocated by the component manufacturer comprising this specification number, his factory identification code letters and a unique number within his registration system, e.g. BS 9721/XYZ/1234.

NOTE After a detail specification has been allocated the manufacturer's reference number in accordance with **3.2.5**, it is to be considered a contractual part of an order. Copies of all such detail specifications are to be retained by the manufacturer's chief inspector.

3.3 Ratings and characteristics

3.3.1 *Ratings*. In the case of customer originated detail specifications, customer and manufacturer agreement shall be obtained on the ratings to be ascribed to the component in the detail specification. These ratings shall not exceed the scope of the manufacturer's capability approval (see also **1.1.12** of BS 9720:1983).

3.3.2 *Characteristics*. A customer shall prescribe in the detail specification any characteristic required for a component.

3.4 Outline drawings and winding schematic diagram

3.4.1 The detail specification shall incorporate a drawing of the transformer showing important features, such as those dimensions affecting interchangeability, restrictions on mounting and marking requirements.

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