

Sectional specification for variable r.f. type inductors of assessed quality for use in electronic equipment for capability approval

UDC 621.318.43

Confirmed January 2011

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Electronic Components Standards Committee (ECL/-) to Technical Committee ECL/18 upon which the following bodies were represented:

- Electronic Components Industry Federation
- Engineering Equipment and Materials Users' Association
- Ministry of Defence
- National Supervising Inspectorate
- Telecommunications Engineering and Manufacturing Association (TEMA)
- 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 Board of BSI and comes into effect on 30 April 1986

© BSI 01-2000

First published December 1982
First revision April 1986

The following BSI references relate to the work on this standard:
Committee reference ECL/18
Draft for comment 85/24631 DC

ISBN 0 580 15108 5

Amendments issued since publication

Amd. No.	Date of issue	Comments
5414	July 1986	Indicated by a sideline in the margin

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

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 variable r.f. type inductors 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. This standard supersedes BS 9753:1982, which is withdrawn.

It is intended for use by the following originators.

- a) A customer wishing to procure variable r.f. type inductors 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 variable r.f. type inductors wishing to prepare specifications for his own products which are within the scope of his capability approval.

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 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 inspection requirements and tests from which a selection is made when preparing a detail specification for variable r.f. type inductors 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.

NOTE Qualification approved small fixed r.f. inductors may also be procured in accordance with BS 9751.

2 Related documents

BS 2011, *Basic environmental testing procedures*.

BS 6001, *Sampling procedures 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*.

BS 9750, *Specification for fixed r.f. inductors of assessed quality: generic data and methods of test*.

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

NOTE BS 6001, BS 9720 and BS 9750 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 should take the form of the BDS shown in clause 5, particularly in respect of the front cover format and, in principle, in respect of the presentation of the inspection requirements.

NOTE 2 All the tests shown in the BDS are taken either from BS 9720 or from BS 9750. 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 or BS 9750 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 9753/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 variable r.f. type inductor showing important features, such as those dimensions affecting interchangeability, orientation of adjuster, restrictions on mounting and marking requirements.

3.4.2 The detail specification shall incorporate a schematic diagram showing all windings, taps and phasings and giving termination identification.