

Rules for the preparation of detail specifications for pulsed fixed-frequency magnetrons of assessed quality

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- British Radio Equipment Manufacturers' Association
- British Radio Valve Manufacturers' Association*
- British Railways Board
- Cable and Wireless Ltd.
- Crown Agents for Oversea Governments and Administrations
- Department of Employment and Productivity (H.M. Factory Inspectorate)
- Electrical Contractors' Association (Incorporated)
- Electrical Research Association
- Electricity Council, the Central Electricity Generating Board and the Area Boards in England and Wales
- Electronic Engineering Association*
- Electronic Valve and Semi-Conductor Manufacturers' Association
- Institution of Electrical Engineers
- Institution of Electronic and Radio Engineers*
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- Scientific Instrument Manufacturers' Association
- Society of British Aerospace Companies Ltd.
- Telecommunication Engineering and Manufacturing Association

The Government departments and scientific and industrial 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:

United Kingdom Atomic Energy Authority.

Amendments issued since publication

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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 11 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 Introduction

This British Standard shall be used in conjunction with BS 9030:1971, “*Magnetrons of assessed quality: generic data and methods of test*”. The object of the rules in this standard is to ensure that all detail specifications for pulsed magnetrons are closely similar to enable them to be readily compared.

2 Scope

This standard lists the ratings, characteristics, inspection requirements and additional information for pulsed fixed-frequency magnetrons of the general application category which shall be included as minimum mandatory requirements in the detail specification, together with supplementary tests which may be called up at the discretion of the specification writer to meet particular circumstances. The purpose of a detail specification is to describe fully a particular component so that the specification can be used contractually for procurement of that component, for acceptance testing and for circuit design and equipment maintenance purposes.

3 General

Detail specifications are prepared either by BSI or by manufacturers. They shall be prepared in accordance with the rules given in **3.1**, **3.2**, **3.3** and **3.4**. The minimum information which is to be given in a detail specification for a pulsed fixed-frequency magnetron is given in the mandatory layout of this standard. All detail specifications shall be printed on A4 size paper conforming to the requirements of BS 4000.

3.1 Basic information. The information given in **3.1.1** to **3.1.9** shall appear on the front page of the detail specification, as far as is practicable. This information is not for inspection purposes; inspection requirements are given in **3.2**.

3.1.1 Originator of the specification. Each detail specification shall give the name and address of the originator of the specification.

3.1.2 Numbering of the detail specification. Each detail specification shall carry a distinguishing number made up of the number of this standard followed by a three-digit number to designate the particular detail specification. Where the detail specifications have been prepared by BSI the two portions of the distinguishing number shall be separated by the letter “N”, e.g. BS 9031 NXXX. When the detail specification is prepared by a manufacturer BSI will issue an “EP” number, e.g. EP 9031 FXXX which shall be used until such time as the qualification approval test report has been received by BSI, who will then issue a BS number which will be separated by the letter “F”, e.g. BS 9031 FXXX, to show that the detail specification has been prepared by a manufacturer.

The issue number and date of issue (month and year) of the detail specification shall be given and re-issues shall give the issue number and date of issue of the superseded document, all changes being clearly marked.

3.1.3 Description of the tube and intended application. This shall be as shown on the first page of the mandatory layout for a detail specification.

3.1.4 Outline drawing (not for inspection purposes). An illustration of the component showing the overall dimensions shall be given as an aid to easy recognition and for comparison of the component with other components.

Terminal connections shall be given as appropriate. The symbols used shall be in accordance with the relevant British Standards or IEC Publications.

The location of the inspection drawings (see **3.3**) shall be given.

3.1.5 Ratings (not for inspection purposes). Any limiting conditions of use, e.g. mounting, shall be stated. The absolute system of ratings shall be used (see IEC Publication 134).

The ratings listed on the first page of the mandatory layout shall be stated. Additional ratings may be included at the manufacturer’s discretion but in all cases the values of the ratings and the conditions under which the ratings apply shall be given. Any interdependence of the ratings shall be given.

3.1.5.1 Ratings (limiting values). These are defined as ratings which establish either a limiting capability or a limiting condition of use beyond which significant performance deterioration, life reduction and/or possible damage to the device may occur.

NOTE The limiting value may be either a maximum or a minimum quantity and is referred to as a “maximum rating” or a “minimum rating” respectively. Such values do not necessarily define a frontier where one side gives satisfactory performance and the other immediate failure.