

Dimensions of pot-cores made of magnetic oxides and associated parts —

Part 1: Specification for IEC pot-core range

[IEC title: Dimensions of pot-cores made of magnetic oxides and
associated parts]

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- Electronic Components Industry Federation
- Electronic Engineering Association
- Ministry of Defence
- National Supervising Inspectorate
- Telecommunication Engineering and Manufacturing Association (TEMA)

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National foreword

This Part of BS 4061 has been prepared under the direction of the Electronic Components Standards Committee. It is identical with IEC 133:1985 “*Dimensions of pot-cores made of magnetic oxides and associated parts*”, published by the International Electrotechnical Commission (IEC).

The technical content of this Part of BS 4061 is fundamentally the same as that of the text covering the IEC range of pot-cores (Range 2) in BS 4061:1966, but alternative gauging details (see *note* to Table I) given in National appendix Z and a table of effective parameter values have been added. Material extracted from IEC 205 has been deleted since the IEC standard has now been implemented as an identical British Standard (see below).

This Part of BS 4061 and BS 4061-2 supersede BS 4061:1966, which is withdrawn.

National appendix Z gives details of form gauging, which is recommended where closer control of hole tolerances is necessary; as with cores intended to be used with an adjuster. The details are more stringent in application than those in Appendix C since the hole diameter and concentricity are checked as well as the diameters of the core chambers, whereas Appendix C gauges the hole diameter separately with a pin, thus taking no account of concentricity. Gauges of the form shown in Appendix C may be suitable for cores not intended to be used with an adjuster.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards: attention is drawn especially to the following.

In some of the tables the comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the word “standard” appears, referring to this standard, it should be read as “Part of BS 4061”.

Cross-references

International Standard	Corresponding British Standard
IEC 205:1966	BS 6454:1983 <i>Method for calculation of the effective parameters of magnetic piece parts</i>
IEC 205A:1968	(Identical)
IEC 205B:1974	(Identical)
ISO 370:1975	BS 2856:1973 <i>Precise conversion of inch and metric sizes on engineering drawings</i>
Method A (referred to in 2.2)	Rules 1, 2 and 3 for the conversion of inch and millimetre sizes (Technically equivalent)
Annex B. Tables for conversion from millimetres into inches (referred to in 2.3)	Appendix A. Conversion tables (Identical)

Additional information. This Part of BS 4061 refers to “primary standards” (see clause 3) and “derived standards” (see Appendix B). The “primary standard” establishes values for the principal dimensions of the core, leaving open the values of those parameters that are not so easily decided by international consensus. This Part of BS 4061 does not specify any “derived standards” and there is no intention to publish any. An example of a “derived standard” for coil formers is given in Appendix B.

If for contractual purposes a “derived standard” is drawn up by a manufacturer or user, then although the specified component will comply with clause 3 for the “primary standard” and therefore be interchangeable with other components, the parts thereof may not necessarily be interchangeable (see note to Appendix B).

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 to iv, pages 1 to 12, 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.

