

Ferrite cores — Dimensions —

Part 13: PQ-cores for use in power supply applications

ICS 29.100.10

National foreword

This British Standard is the UK implementation of EN 62317-13:2008. It is identical to IEC 62317-13:2008.

The UK participation in its preparation was entrusted to Technical Committee EPL/51, Transformers, inductors, magnetic components and ferrite materials.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Ferrite cores -
Dimensions -
Part 13: PQ-cores for use in power supply applications
(IEC 62317-13:2008)**

Noyaux ferrites -
Dimensions -
Partie 13: Noyaux PQ utilisés
dans des applications
d'alimentation électrique
(CEI 62317-13:2008)

Ferritkerne -
Maße -
Teil 13: PQ-Kerne
für den Einsatz in Netzteilen
(IEC 62317-13:2008)

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CENELEC

European Committee for Electrotechnical Standardization
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Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 51/910/FDIS, future edition 1 of IEC 62317-13, prepared by IEC TC 51, Magnetic components and ferrite materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62317-13 on 2008-05-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
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- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2011-05-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62317-13:2008 was approved by CENELEC as a European Standard without any modification.

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FERRITE CORES – DIMENSIONS –

Part 13: PQ-cores for use in power supply applications

1 Scope

This part of IEC 62317 specifies the dimensions that are of importance for mechanical interchangeability for a preferred range of PQ-cores and low-profile PQI-cores made of ferrite, and the locations of their terminal pins on a 2,54 mm printed wiring grid in relation to the base outlines of the cores.

The selection of core sizes for this standard is based on the philosophy of including those sizes which are industrial standards, either by inclusion in a national standard, or by broad-based use in industry. See IEC 62317-1 for more detail concerning the philosophy of selecting core sizes to be included.

The general considerations that the design of this range of cores is based upon are given in Annex A.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60205, *Calculation of the effective parameters of magnetic piece parts*

IEC 62317-1, *Ferrite cores – Dimensions – Part 1: General specification*

3 Primary standards

Compliance with the following requirements ensures mechanical interchangeability of complete assemblies and wound coil formers.

3.1 Dimensions of PQ-cores

3.1.1 Principal dimensions

The principal dimensions of PQ-cores shall be as given in Table 1 and the low-profile PQ-cores shall be as given in Table 2. See also Figures 1 and 2.

NOTE The dimensions of the cores may be checked by means of gauges. By way of example, a possible standard for these gauges is given in Annex B. In order to facilitate production it may be necessary to use gauges having dimensions differing from those given in Annex B, although no relaxation of the requirements for the dimensions of the cores given in Table 1 and in Table 2 is permitted.

3.1.2 Effective parameter and $A_{\min}$ values

The effective parameter values for cores having the dimensions given in 3.1.1 are as shown in Table 3 and Table 4.