

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Ferrite cores – Dimensions –
Part 13: PQ-cores for use in power supply applications**

**Noyaux ferrites – Dimensions –
Partie 13: Noyaux PQ utilisés dans des applications d'alimentation électrique**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FERRITE CORES – DIMENSIONS –

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

FOREWORD

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International Standard IEC 62317-13 has been prepared by technical committee 51: Magnetic components and ferrite materials.

This second edition cancels and replaces the first edition published in 2008. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) addition of three core sizes (PQ 65/54, PQ 78/39 and PQ 107/87) in Table 1,
- b) addition of effective parameter and A_{\min} values, of main dimensions of coil formers and of gauge dimensions for PQ-cores for PQ 65/54, PQ 78/39 and PQ 107/87.

The text of this standard is based on the following documents:

FDIS	Report on voting
51/1095/FDIS	51/1104/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 62317 series, under the general title *Ferrite cores – Dimensions*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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.

NOTE 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 documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Void.

3 Primary standards

3.1 General

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

3.2 Dimensions of PQ-cores

3.2.1 Principal dimensions

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

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, although no relaxation of the requirements for the dimensions of the cores given in Table 1 and in Table 2 is permitted.

3.2.2 Effective parameter and A_{\min} values

The effective parameter values for cores having the dimensions given in 3.2.1 are as shown in Table 3 and Table 4.