

# INTERNATIONAL STANDARD

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AMENDMENT 1  
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Amendment 1

**Ferrite cores – Dimensions –**

**Part 9:**  
**Planar cores**

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PRICE CODE

**C**

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## FOREWORD

This amendment has been prepared by IEC technical committee 51: Magnetic components and ferrite materials.

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

| CDV        | Report on voting |
|------------|------------------|
| 51/866/CDV | 51/876/RVC       |

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the maintenance result 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- withdrawn,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.

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**Table 5 – Dimensions of low-profile ER-core**

*Add, to the existing table, the new cores as follows:*

| Size           |      | A     | B <sub>1</sub> | B <sub>2</sub> | C    | D    | E     | F    | G     |
|----------------|------|-------|----------------|----------------|------|------|-------|------|-------|
| ER20 × 6 × 14  | min. | 19,65 | 6,2            |                | 13,7 | 3,95 | 17,65 | 8,65 | 12,51 |
|                | max. | 20,35 | 6,4            |                | 14,3 | 4,25 | 18,35 | 8,95 | 13,21 |
| PLT20 × 2 × 14 | min. | 19,65 |                | 2,25           | 13,7 |      |       |      |       |
|                | max. | 20,35 |                | 2,35           | 14,3 |      |       |      |       |
| ER32 × 5 × 21  | min. | 31,4  | 5,0            |                | 20,6 | 2,6  | 29,2  | 11,0 | 23,0  |
|                | max. | 32,6  | 5,2            |                | 21,4 | 2,8  | 30,2  | 11,4 | 24,2  |
| PLT32 × 3 × 25 | min. | 31,4  |                | 2,3            | 20,6 |      |       |      |       |
|                | max. | 32,6  |                | 2,5            | 21,4 |      |       |      |       |

**Table 6 – Effective parameter values and  $A_{\min}$  values**

Add, to the existing table, the new values as follows:

|                     | $C_1$<br>mm <sup>-1</sup> | $C_2$<br>mm <sup>-3</sup> | $I_e$<br>mm | $A_e$<br>mm <sup>2</sup> | $V_e$<br>mm <sup>3</sup> | $A_{\min}$<br>mm <sup>2</sup> | Remarks            |
|---------------------|---------------------------|---------------------------|-------------|--------------------------|--------------------------|-------------------------------|--------------------|
| ER20 × 6 × 14       | 0,578 42                  | 0,009 734 0               | 34,4        | 59,4                     | 2 040                    | 55,4                          | Combination ER-ER  |
| ER32 × 5 × 21       | 0,399 71                  | 0,003 981 9               | 40,1        | 100                      | 4 030                    | 98,5                          |                    |
| ER20 × 6 × 14 + PLT | 0,433 22                  | 0,007 146 5               | 26,3        | 60,6                     | 1 590                    | 55,4                          | Combination ER-PLT |
| ER32 × 5 × 21 + PLT | 0,345 69                  | 0,003 441 3               | 34,7        | 101                      | 3 490                    | 98,5                          |                    |