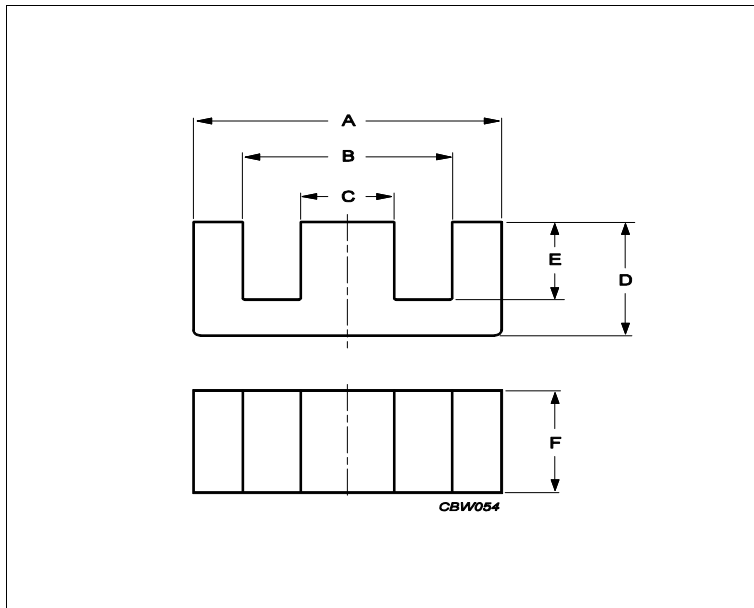


## Core **E55/28/21**



| Effective parameters |                  |       |                  |
|----------------------|------------------|-------|------------------|
|                      | Parameter        | Value | Unit             |
| $\Sigma(I/A)$        | core factor (C1) | 0.35  | mm <sup>-1</sup> |
| <b>Ve</b>            | effective volume | 44000 | mm <sup>3</sup>  |
| <b>Le</b>            | effective length | 124   | mm               |
| <b>Ae</b>            | effective area   | 353   | mm <sup>2</sup>  |
| <b>Amin</b>          | minimum area     | 345   | mm <sup>2</sup>  |
| <b>m</b>             | E55/28/21        | ≈ 108 | g/pcs            |

| Dimensions for product: E55/28/21 |       |       |       |       |       |      |
|-----------------------------------|-------|-------|-------|-------|-------|------|
|                                   | Nom   | Tol + | Tol - | Max   | Min   | Unit |
| <b>A</b>                          | 56.20 | 0.00  | 2.10  | 56.20 | 54.10 | mm   |
| <b>B</b>                          | 37.50 | 1.50  | 0.00  | 39.00 | 37.50 | mm   |
| <b>C</b>                          | 17.20 | 0.00  | 0.50  | 17.20 | 16.70 | mm   |
| <b>D</b>                          | 27.50 | 0.30  | 0.30  | 27.80 | 27.20 | mm   |
| <b>E</b>                          | 18.50 | 0.80  | 0.00  | 19.30 | 18.50 | mm   |
| <b>F</b>                          | 21.00 | 0.00  | 0.80  | 21.00 | 20.20 | mm   |

| Inductance factor |       |       |       |                       |
|-------------------|-------|-------|-------|-----------------------|
| Material          | Value | Tol + | Tol - | Unit                  |
| 3C91              | 8625  | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3C92              | 4700  | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3C94              | 6400  | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3C95              | 8625  | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3F36              | 4200  | 25%   | 25%   | nH/turns <sup>2</sup> |

| Power loss: 3C91     |        |        |        |       |
|----------------------|--------|--------|--------|-------|
| Measuring conditions |        |        | Max    | Unit  |
| 100 kHz              | 200 mT | 60 °C  | 22.000 | W/set |
| Power loss: 3C92     |        |        |        |       |
| Measuring conditions |        |        | Max    | Unit  |
| 100 kHz              | 200 mT | 100 °C | 22.000 | W/set |
| Power loss: 3C94     |        |        |        |       |
| Measuring conditions |        |        | Max    | Unit  |
| 100 kHz              | 200 mT | 100 °C | 22.000 | W/set |

## Core **E55/28/21**

| Power loss: 3C95     |        |        |        |       |
|----------------------|--------|--------|--------|-------|
| Measuring conditions |        |        | Max    | Unit  |
| 100 kHz              | 200 mT | 100 °C | 21.000 | W/set |
| 100 kHz              | 200 mT | 25 °C  | 23.000 | W/set |
| Power loss: 3F36     |        |        |        |       |
| Measuring conditions |        |        | Max    | Unit  |
| 500 kHz              | 50 mT  | 100 °C | 10.000 | W/set |
| 500 kHz              | 100 mT | 100 °C | 64.000 | W/set |

| Bsat                 |         |        |          |     |      |
|----------------------|---------|--------|----------|-----|------|
| Measuring conditions |         |        | Material | Min | Unit |
| 25 kHz               | 250 A/m | 100 °C | 3C91     | 320 | mT   |
| 25 kHz               | 250 A/m | 100 °C | 3C92     | 370 | mT   |
| 25 kHz               | 250 A/m | 100 °C | 3C94     | 320 | mT   |
| 25 kHz               | 250 A/m | 100 °C | 3C95     | 330 | mT   |
| 25 kHz               | 250 A/m | 100 °C | 3F36     | 340 | mT   |

| Accessories            |                                       |               |
|------------------------|---------------------------------------|---------------|
| Ordering name          | Description                           | Ordering code |
| CLA-E55/28/21          | Clasp                                 | 431202126091  |
| CP-E55/28/21-1S        | Coil former, termoplastic             | 431202128713  |
| CP-E55/28/21-1S-A      | Coil former, termoplastic             | 433500027031  |
| CPH-E55/28/21-1S-22P-Z | Coil former, termoplastic, horizontal | 432202106791  |
| SPR-E55/28/21          | Spring                                | 431202126131  |