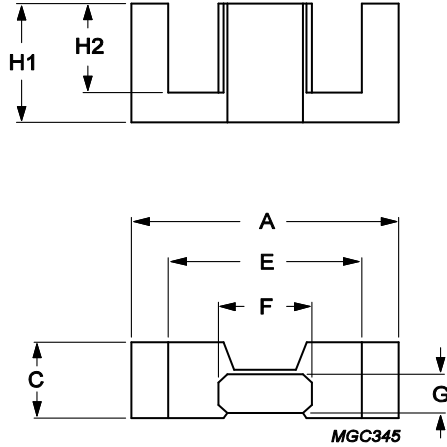


Core **EFD20/10/7**



| Effective parameters |                  |       |                  |
|----------------------|------------------|-------|------------------|
|                      | Parameter        | Value | Unit             |
| $\Sigma(I/A)$        | core factor (C1) | 1.52  | mm <sup>-1</sup> |
| <b>Ve</b>            | effective volume | 1460  | mm <sup>3</sup>  |
| <b>Le</b>            | effective length | 47    | mm               |
| <b>Ae</b>            | effective area   | 31    | mm <sup>2</sup>  |
| <b>Amin</b>          | minimum area     | 29    | mm <sup>2</sup>  |
| <b>m</b>             | EFD20/10/7       | ≈ 3.5 | g/pcs            |

| Dimensions for product: EFD20/10/7 |       |       |       |       |       |      |
|------------------------------------|-------|-------|-------|-------|-------|------|
|                                    | Nom   | Tol + | Tol - | Max   | Min   | Unit |
| <b>A</b>                           | 20.00 | 0.55  | 0.55  | 20.55 | 19.45 | mm   |
| <b>C</b>                           | 6.65  | 0.15  | 0.15  | 6.80  | 6.50  | mm   |
| <b>E</b>                           | 15.40 | 0.50  | 0.50  | 15.90 | 14.90 | mm   |
| <b>F</b>                           | 8.90  | 0.20  | 0.20  | 9.10  | 8.70  | mm   |
| <b>G</b>                           | 3.60  | 0.15  | 0.15  | 3.75  | 3.45  | mm   |
| <b>H1</b>                          | 10.00 | 0.15  | 0.15  | 10.15 | 9.85  | mm   |
| <b>H2</b>                          | 7.70  | 0.25  | 0.25  | 7.95  | 7.45  | mm   |

| Inductance factor |       |       |       |                       |
|-------------------|-------|-------|-------|-----------------------|
| Material          | Value | Tol + | Tol - | Unit                  |
| 3C95              | 1540  | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3C96              | 1200  | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3F36              | 950   | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3F46              | 580   | 25%   | 25%   | nH/turns <sup>2</sup> |

| Power loss: 3C95     |        |        |       |       |
|----------------------|--------|--------|-------|-------|
| Measuring conditions |        |        | Max   | Unit  |
| 100 kHz              | 200 mT | 100 °C | 0.700 | W/set |
| 100 kHz              | 200 mT | 25 °C  | 0.760 | W/set |
| Power loss: 3C96     |        |        |       |       |
| Measuring conditions |        |        | Max   | Unit  |
| 100 kHz              | 200 mT | 100 °C | 0.660 | W/set |
| 400 kHz              | 50 mT  | 100 °C | 0.260 | W/set |

## Core **EFD20/10/7**

| Power loss: 3F36     |        |        |       |       |
|----------------------|--------|--------|-------|-------|
| Measuring conditions |        |        | Max   | Unit  |
| 500 kHz              | 50 mT  | 100 °C | 0.220 | W/set |
| 500 kHz              | 100 mT | 100 °C | 1.700 | W/set |
| Power loss: 3F46     |        |        |       |       |
| Measuring conditions |        |        | Max   | Unit  |
| 1000 kHz             | 50 mT  | 100 °C | 0.580 | W/set |
| 3000 kHz             | 10 mT  | 100 °C | 0.220 | W/set |

| Bsat                 |         |        |          |     |      |
|----------------------|---------|--------|----------|-----|------|
| Measuring conditions |         |        | Material | Min | Unit |
| 25 kHz               | 250 A/m | 100 °C | 3C95     | 330 | mT   |
| 25 kHz               | 250 A/m | 100 °C | 3C96     | 340 | mT   |
| 25 kHz               | 250 A/m | 100 °C | 3F36     | 340 | mT   |
| 25 kHz               | 250 A/m | 100 °C | 3F46     | 330 | mT   |

| Accessories         |                                          |               |
|---------------------|------------------------------------------|---------------|
| Ordering name       | Description                              | Ordering code |
| CLI-EFD20           | Clip                                     | 432202135151  |
| CLM-EFD20           | Clamp                                    | 432202102211  |
| CPH-EFD20-1S-10PD-Z | Coil former, termoplastic, horizontal    | 432202106161  |
| CPHS-EFD20/7-1S-10P | Coil former, termoplastic, horizontal, S | 432202100071  |
| CSH-EFD20-1S-8P-IZ  | Coil former, termoset, horizontal        | 432202106931  |
| CSH-EFD20-1S-8P-TZ  | Coil former, termoset, horizontal        | 432202106291  |
| CSHS-EFD20-1S-10P-Z | Coil former, termoset, horizontal, SMD   | 432202106091  |
| CSHS-EFD20-1S-12P   | Coil former, termoset, horizontal, SMD   | 432202104331  |