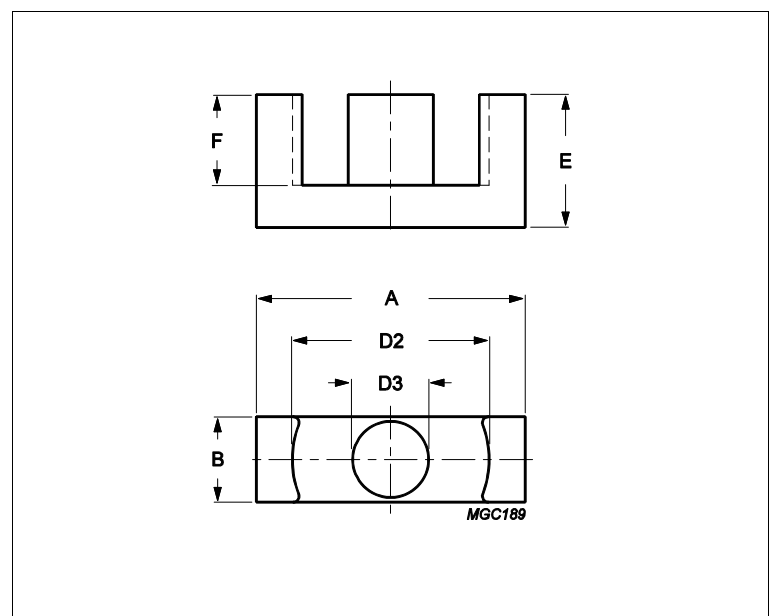


Core

ER48/21/21



| Effective parameters |                  |       |                  |
|----------------------|------------------|-------|------------------|
|                      | Parameter        | Value | Unit             |
| $\Sigma(I/A)$        | core factor (C1) | 0.392 | mm <sup>-1</sup> |
| <b>Ve</b>            | effective volume | 25500 | mm <sup>3</sup>  |
| <b>Le</b>            | effective length | 100   | mm               |
| <b>Ae</b>            | effective area   | 255   | mm <sup>2</sup>  |
| <b>Amin</b>          | minimum area     | 248   | mm <sup>2</sup>  |
| <b>m</b>             | ER48/21/21       | ≈ 64  | g/pcs            |

| Dimensions for product: ER48/21/21 |       |       |       |       |       |      |
|------------------------------------|-------|-------|-------|-------|-------|------|
|                                    | Nom   | Tol + | Tol - | Max   | Min   | Unit |
| <b>A</b>                           | 48.00 | 1.00  | 1.00  | 49.00 | 47.00 | mm   |
| <b>B</b>                           | 21.00 | 0.30  | 0.50  | 21.30 | 20.50 | mm   |
| <b>D2</b>                          | 38.00 | 0.50  | 0.80  | 38.50 | 37.20 | mm   |
| <b>D3</b>                          | 18.00 | 0.30  | 0.30  | 18.30 | 17.70 | mm   |
| <b>E</b>                           | 21.20 | 0.00  | 0.40  | 21.20 | 20.80 | mm   |
| <b>F</b>                           | 14.70 | 0.70  | 0.00  | 15.40 | 14.70 | mm   |

| Inductance factor |       |       |       |                       |
|-------------------|-------|-------|-------|-----------------------|
| Material          | Value | Tol + | Tol - | Unit                  |
| 3C94              | 5700  | 25%   | 25%   | nH/turns <sup>2</sup> |

| Power loss: 3C94     |        |        |        |       |
|----------------------|--------|--------|--------|-------|
| Measuring conditions |        |        | Max    | Unit  |
| 100 kHz              | 200 mT | 100 °C | 13.000 | W/set |

| Bsat                 |         |        |          |      |
|----------------------|---------|--------|----------|------|
| Measuring conditions |         |        | Material | Unit |
| 25 kHz               | 250 A/m | 100 °C | 3C94     | mT   |