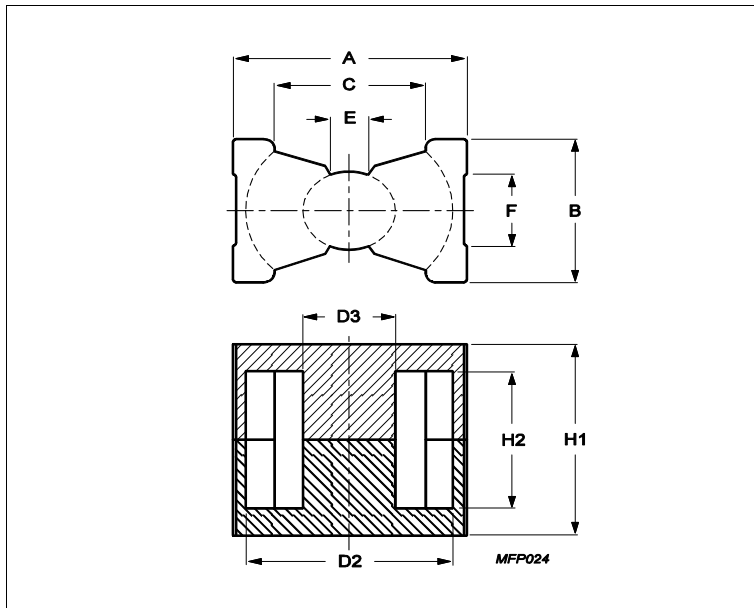


## Core **PQ50/35**



| Effective parameters |                  |         |                  |
|----------------------|------------------|---------|------------------|
|                      | Parameter        | Value   | Unit             |
| $\Sigma(I/A)$        | core factor (C1) | 0.257   | mm <sup>-1</sup> |
| <b>Ve</b>            | effective volume | 27800   | mm <sup>3</sup>  |
| <b>Le</b>            | effective length | 84.4    | mm               |
| <b>Ae</b>            | effective area   | 329     | mm <sup>2</sup>  |
| <b>Amin</b>          | minimum area     | 314     | mm <sup>2</sup>  |
| <b>m</b>             | PQ50/35          | ≈ 155.3 | g/set            |

| Dimensions for product: PQ50/35 |       |       |       |       |       |      |
|---------------------------------|-------|-------|-------|-------|-------|------|
|                                 | Nom   | Tol + | Tol - | Max   | Min   | Unit |
| <b>A</b>                        | 51.00 | 0.70  | 0.70  | 51.70 | 50.30 | mm   |
| <b>B</b>                        | 32.00 | 0.60  | 0.60  | 32.60 | 31.40 | mm   |
| <b>C</b>                        |       |       |       |       | 32.00 | mm   |
| <b>D2</b>                       | 44.00 | 0.70  | 0.70  | 44.70 | 43.30 | mm   |
| <b>D3</b>                       | 20.00 | 0.35  | 0.35  | 20.35 | 19.65 | mm   |
| <b>E</b>                        |       |       |       |       | 8.15  | mm   |
| <b>F</b>                        |       |       |       |       | 18.00 | mm   |
| <b>H1</b>                       | 35.00 | 0.50  | 0.50  | 35.50 | 34.50 | mm   |
| <b>H2</b>                       | 21.10 | 0.60  | 0.60  | 21.70 | 20.50 | mm   |

| Inductance factor |       |       |       |                       |
|-------------------|-------|-------|-------|-----------------------|
| Material          | Value | Tol + | Tol - | Unit                  |
| 3C94              | 8600  | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3C95              | 12100 | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3C96              | 7700  | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3C97              | 11000 | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3F36              | 5400  | 25%   | 25%   | nH/turns <sup>2</sup> |
| 3F4               | 3900  | 25%   | 25%   | nH/turns <sup>2</sup> |

| Power loss: 3C94     |        |        |        |       |
|----------------------|--------|--------|--------|-------|
| Measuring conditions |        |        | Max    | Unit  |
| 100 kHz              | 200 mT | 100 °C | 14.000 | W/set |
| Power loss: 3C95     |        |        |        |       |
| Measuring conditions |        |        | Max    | Unit  |

## Core **PQ50/35**

### Power loss: 3C95

| Measuring conditions |        |        | Max    | Unit  |
|----------------------|--------|--------|--------|-------|
| 100 kHz              | 200 mT | 100 °C | 13.000 | W/set |
| 100 kHz              | 200 mT | 25 °C  | 14.000 | W/set |

### Power loss: 3C96

| Measuring conditions |        |        | Max    | Unit  |
|----------------------|--------|--------|--------|-------|
| 100 kHz              | 200 mT | 100 °C | 13.000 | W/set |
| 400 kHz              | 50 mT  | 100 °C | 7.200  | W/set |

### Power loss: 3C97

| Measuring conditions |        |        | Max    | Unit  |
|----------------------|--------|--------|--------|-------|
| 100 kHz              | 200 mT | 60 °C  | 14.000 | W/set |
| 100 kHz              | 200 mT | 120 °C | 13.000 | W/set |
| 100 kHz              | 200 mT | 140 °C | 17.000 | W/set |

### Power loss: 3F36

| Measuring conditions |        |        | Max    | Unit  |
|----------------------|--------|--------|--------|-------|
| 500 kHz              | 50 mT  | 100 °C | 5.900  | W/set |
| 500 kHz              | 100 mT | 100 °C | 39.000 | W/set |

### Power loss: 3F4

| Measuring conditions |       |        | Max    | Unit  |
|----------------------|-------|--------|--------|-------|
| 1000 kHz             | 30 mT | 100 °C | 11.000 | W/set |
| 3000 kHz             | 10 mT | 100 °C | 17.000 | W/set |

### Bsat

| Measuring conditions |         |        | Material | Min | Unit |
|----------------------|---------|--------|----------|-----|------|
| 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 | 3C96     | 340 | mT   |
| 25 kHz               | 250 A/m | 100 °C | 3C97     | 330 | mT   |
| 25 kHz               | 250 A/m | 100 °C | 3F36     | 340 | mT   |
| 25 kHz               | 250 A/m | 100 °C | 3F4      | 330 | mT   |