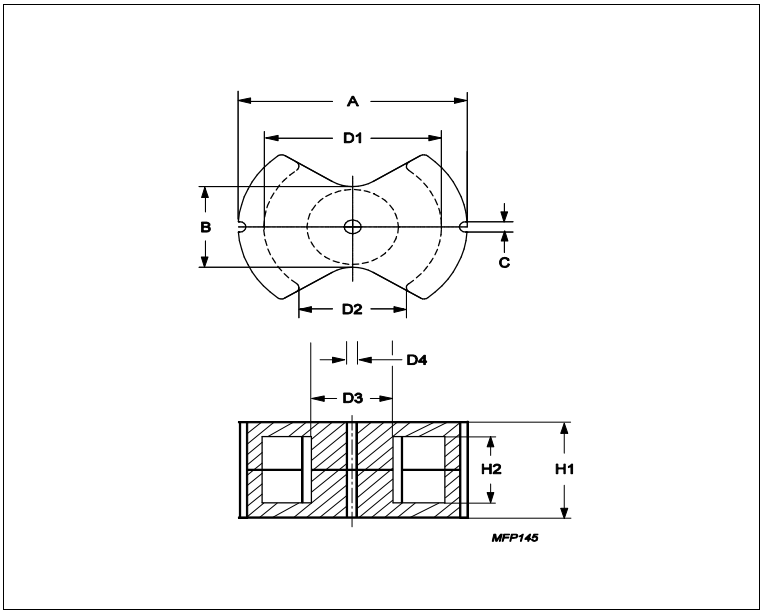
# Core **PM50/39**




| Effective parameters | | | |
|---|---|---|---|
| | **Parameter** | **Value** | **Unit** |
| **Σ(I/A)** | *core factor (C1)* | 0.227 | $mm^{-1}$ |
| **Ve** | *effective volume* | 31000 | $mm^3$ |
| **Le** | *effective length* | 84 | mm |
| **Ae** | *effective area* | 370 | $mm^2$ |
| **Amin** | *minimum area* | 280 | $mm^2$ |
| **m** | *PM50/39* | ≈ 140 | g/set |

| Dimensions for product: PM50/39 | | | | | | |
|---|---|---|---|---|---|---|
| | **Nom** | **Tol +** | **Tol -** | **Max** | **Min** | **Unit** |
| **A** | 50.00 | 0.00 | 1.70 | 50.00 | 48.30 | mm |
| **B** | | | | 23.00 | | mm |
| **C** | 5.00 | 0.00 | 0.40 | 5.00 | 4.60 | mm |
| **D1** | 39.00 | 1.30 | 0.00 | 40.30 | 39.00 | mm |
| **D2** | | | | | 23.40 | mm |
| **D3** | 20.00 | 0.00 | 0.60 | 20.00 | 19.40 | mm |
| **D4** | 5.40 | 0.20 | 0.00 | 5.60 | 5.40 | mm |
| **H1** | 39.00 | 0.00 | 0.40 | 39.00 | 38.60 | mm |
| **H2** | 26.40 | 0.80 | 0.00 | 27.20 | 26.40 | mm |

| Inductance factor | | | | |
|---|---|---|---|---|
| **Material** | **Value** | **Tol +** | **Tol -** | **Unit** |
| 3C94 | 10000 | 25% | 25% | $nH/turns^2$ |

| Power loss: 3C94 | | | | |
|---|---|---|---|---|
| **Measuring conditions** | | | **Max** | **Unit** |
| 100 kHz | 200 mT | 100 ºC | 16.000 | W/set |

| Bsat | | | | | |
|---|---|---|---|---|---|
| **Measuring conditions** | | | **Material** | **Min** | **Unit** |
| 10 kHz | 250 A/m | 100 ºC | 3C94 | 320 | mT |