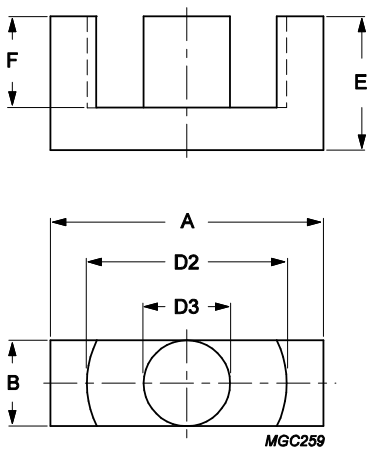
# Core **ETD39/20/13**




| Effective parameters | | | |
|---|---|---|---|
| | **Parameter** | **Value** | **Unit** |
| **Σ(I/A)** | *core factor (C1)* | 0.737 | $mm^{-1}$ |
| **Ve** | *effective volume* | 11500 | $mm^3$ |
| **Le** | *effective length* | 92.2 | mm |
| **Ae** | *effective area* | 125 | $mm^2$ |
| **Amin** | *minimum area* | 123 | $mm^2$ |
| **m** | *ETD39/20/13* | ≈ 30 | g/pcs |

| Dimensions for product: ETD39/20/13 | | | | | | |
|---|---|---|---|---|---|---|
| | **Nom** | **Tol +** | **Tol -** | **Max** | **Min** | **Unit** |
| **A** | 40.00 | 0.00 | 1.80 | 40.00 | 38.20 | mm |
| **B** | 12.80 | 0.00 | 0.60 | 12.80 | 12.20 | mm |
| **D2** | 29.30 | 1.60 | 0.00 | 30.90 | 29.30 | mm |
| **D3** | 12.80 | 0.00 | 0.60 | 12.80 | 12.20 | mm |
| **E** | 19.80 | 0.20 | 0.20 | 20.00 | 19.60 | mm |
| **F** | 14.20 | 0.80 | 0.00 | 15.00 | 14.20 | mm |

| Inductance factor | | | | |
|---|---|---|---|---|
| **Material** | **Value** | **Tol +** | **Tol -** | **Unit** |
| 3C94 | 2900 | 25% | 25% | $nH/turns^2$ |
| 3C95 | 3650 | 25% | 25% | $nH/turns^2$ |
| 3C97 | 3650 | 25% | 25% | $nH/turns^2$ |
| 3F36 | 2000 | 25% | 25% | $nH/turns^2$ |
| 3F46 | 1200 | 25% | 25% | $nH/turns^2$ |

| Power loss: 3C94 | | | | |
|---|---|---|---|---|
| **Measuring conditions** | | | **Max** | **Unit** |
| 100 kHz | 200 mT | 100 ºC | 5.800 | W/set |
| **Power loss: 3C95** | | | | |
| **Measuring conditions** | | | **Max** | **Unit** |
| 100 kHz | 200 mT | 100 ºC | 5.500 | W/set |
| 100 kHz | 200 mT | 25 ºC | 6.000 | W/set |
| **Power loss: 3C97** | | | | |
| **Measuring conditions** | | | **Max** | **Unit** |

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| Power loss: 3C97 | | | | |
|---|---|---|---|---|
| Measuring conditions | | | Max | Unit |
| 100 kHz | 200 mT | 60 ºC | 5.800 | W/set |
| 100 kHz | 200 mT | 120 ºC | 5.500 | W/set |
| 100 kHz | 200 mT | 140 ºC | 6.900 | W/set |
| **Power loss: 3F36** | | | | |
| Measuring conditions | | | Max | Unit |
| 500 kHz | 50 mT | 100 ºC | 1.700 | W/set |
| 500 kHz | 100 mT | 100 ºC | 13.000 | W/set |
| **Power loss: 3F46** | | | | |
| Measuring conditions | | | Max | Unit |
| 1000 kHz | 50 mT | 100 ºC | 6.500 | W/set |
| 3000 kHz | 10 mT | 100 ºC | 4.200 | W/set |

| Bsat | | | | | |
|---|---|---|---|---|---|
| Measuring conditions | | | Material | Min | Unit |
| 25 kHz | 250 A/m | 100 ºC | 3C94 | 320 | mT |
| 25 kHz | 250 A/m | 100 ºC | 3C95 | 330 | mT |
| 25 kHz | 250 A/m | 100 ºC | 3C97 | 330 | mT |
| 25 kHz | 250 A/m | 100 ºC | 3F36 | 340 | mT |
| 25 kHz | 250 A/m | 100 ºC | 3F46 | 330 | mT |

| Accessories | | |
|---|---|---|
| Ordering name | Description | Ordering code |
| CLI-ETD39 | Clip | 432202133902 |
| CPH-ETD39-1S-16P | Coil former, termoplastic, horizontal | 432202133862 |
| CPH-ETD39-1S-16P-C | Coil former, termoplastic, horizontal | 432202101651 |