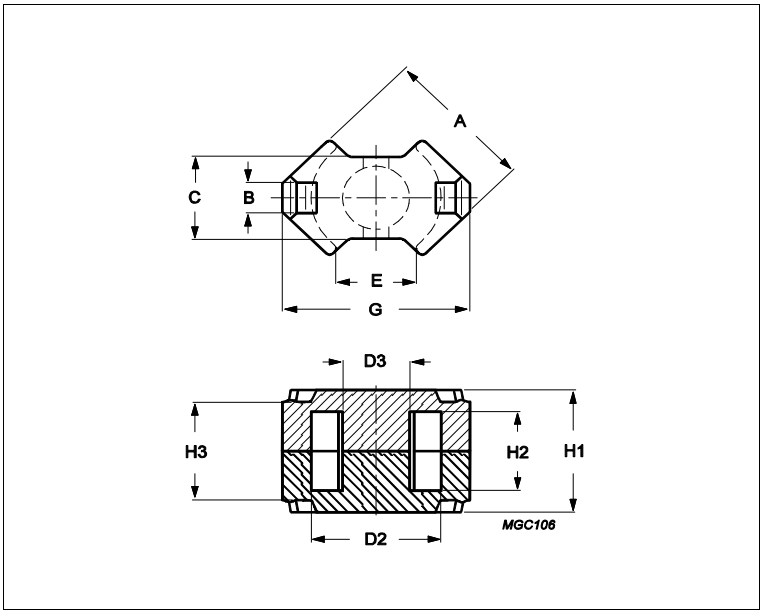
# Core **RM8/ILP**




| Effective parameters | | | |
|---|---|---|---|
| | **Parameter** | **Value** | **Unit** |
| **Σ(I/A)** | *core factor (C1)* | 0.44 | $mm^{-1}$ |
| **Ve** | *effective volume* | 1860 | $mm^3$ |
| **Le** | *effective length* | 28.7 | mm |
| **Ae** | *effective area* | 64.9 | $mm^2$ |
| **Amin** | *minimum area* | 55.4 | $mm^2$ |
| **m** | *RM8/ILP* | ≈ 10 | g/set |

| Dimensions for product: RM8/ILP | | | | | | |
|---|---|---|---|---|---|---|
| | **Nom** | **Tol +** | **Tol -** | **Max** | **Min** | **Unit** |
| **A** | 19.70 | 0.00 | 0.80 | 19.70 | 18.90 | mm |
| **B** | 5.00 | | | 5.00 | 5.00 | mm |
| **C** | 11.00 | 0.00 | 0.50 | 11.00 | 10.50 | mm |
| **D2** | 17.00 | 0.60 | 0.00 | 17.60 | 17.00 | mm |
| **D3** | 8.55 | 0.00 | 0.30 | 8.55 | 8.25 | mm |
| **E** | | | | | 9.50 | mm |
| **G** | 23.20 | 0.00 | 0.90 | 23.20 | 22.30 | mm |
| **H1** | 11.60 | 0.00 | 0.20 | 11.60 | 11.40 | mm |
| **H2** | 5.90 | 0.40 | 0.00 | 6.30 | 5.90 | mm |
| **H3** | 9.40 | 0.25 | 0.25 | 9.65 | 9.15 | mm |

| Inductance factor | | | | |
|---|---|---|---|---|
| **Material** | **Value** | **Tol +** | **Tol -** | **Unit** |
| 3C91 | 4900 | 25% | 25% | $nH/turns^2$ |
| 3C94 | 4100 | 25% | 25% | $nH/turns^2$ |
| 3C95 | 4900 | 25% | 25% | $nH/turns^2$ |
| 3C96 | 3800 | 25% | 25% | $nH/turns^2$ |
| 3D3 | 1850 | 25% | 25% | $nH/turns^2$ |
| 3F36 | 3100 | 25% | 25% | $nH/turns^2$ |
| 3F46 | 1900 | 25% | 25% | $nH/turns^2$ |
| 3H3 | 4100 | 25% | 25% | $nH/turns^2$ |

| Power loss: 3C91 | | |
|---|---|---|
| **Measuring conditions** | **Max** | **Unit** |

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| Power loss: 3C91 | | | | |
|---|---|---|---|---|
| **Measuring conditions** | | | **Max** | **Unit** |
| 100 kHz | 200 mT | 60 ºC | 0.930 | W/set |
| **Power loss: 3C94** | | | | |
| **Measuring conditions** | | | **Max** | **Unit** |
| 100 kHz | 200 mT | 100 ºC | 0.930 | W/set |
| **Power loss: 3C95** | | | | |
| **Measuring conditions** | | | **Max** | **Unit** |
| 100 kHz | 200 mT | 100 ºC | 0.890 | W/set |
| 100 kHz | 200 mT | 25 ºC | 0.970 | W/set |
| **Power loss: 3C96** | | | | |
| **Measuring conditions** | | | **Max** | **Unit** |
| 100 kHz | 200 mT | 100 ºC | 0.840 | W/set |
| 400 kHz | 50 mT | 100 ºC | 0.330 | W/set |
| **Power loss: 3F36** | | | | |
| **Measuring conditions** | | | **Max** | **Unit** |
| 500 kHz | 50 mT | 100 ºC | 0.280 | W/set |
| 500 kHz | 100 mT | 100 ºC | 2.100 | W/set |
| **Power loss: 3F46** | | | | |
| **Measuring conditions** | | | **Max** | **Unit** |
| 1000 kHz | 50 mT | 100 ºC | 0.750 | W/set |
| 3000 kHz | 10 mT | 100 ºC | 0.420 | W/set |

| Bsat | | | | | |
|---|---|---|---|---|---|
| **Measuring conditions** | | | **Material** | **Min** | **Unit** |
| 25 kHz | 250 A/m | 100 ºC | 3C91 | 320 | mT |
| 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 | 3C96 | 340 | 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/P-RM8/ILP | Clip, with ground pin | 432202101921 |
| CSV-RM8/LP-1S-10P-ZA | Coil former, termoset, vertical | 432202106111 |
| CSV-RM8/LP-1S-12P-Z | Coil former, termoset, vertical | 432202106121 |