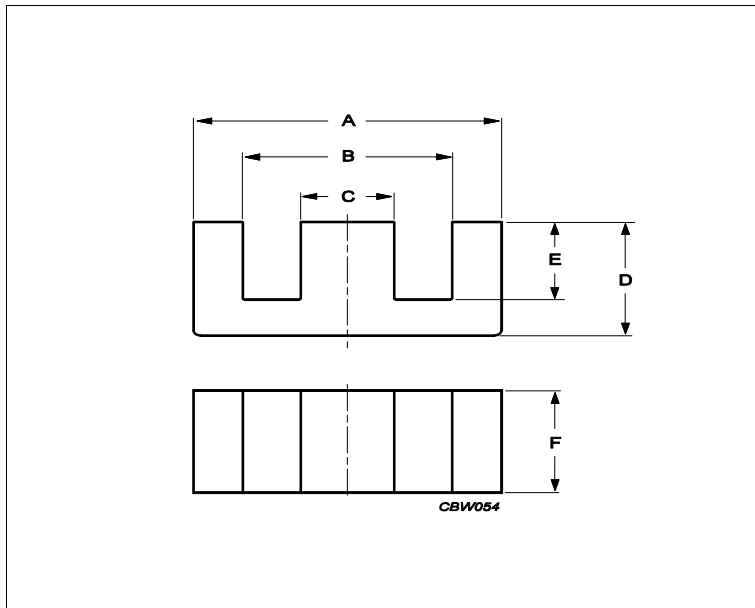


Core **E42/21/20**



| Effective parameters | | | |
|----------------------|------------------|-------|------------------|
| | Parameter | Value | Unit |
| $\Sigma(I/A)$ | core factor (C1) | 0.417 | mm ⁻¹ |
| Ve | effective volume | 22700 | mm ³ |
| Le | effective length | 97 | mm |
| Ae | effective area | 233 | mm ² |
| Amin | minimum area | 233 | mm ² |
| m | E42/21/20 | ≈ 56 | g/pcs |

| Dimensions for product: E42/21/20 | | | | | | |
|-----------------------------------|-------|-------|-------|-------|-------|------|
| | Nom | Tol + | Tol - | Max | Min | Unit |
| A | 43.00 | 0.00 | 1.70 | 43.00 | 41.30 | mm |
| B | 29.50 | 1.40 | 0.00 | 30.90 | 29.50 | mm |
| C | 12.20 | 0.00 | 0.50 | 12.20 | 11.70 | mm |
| D | 21.00 | 0.20 | 0.20 | 21.20 | 20.80 | mm |
| E | 14.80 | 0.60 | 0.00 | 15.40 | 14.80 | mm |
| F | 20.00 | 0.00 | 0.80 | 20.00 | 19.20 | mm |

| Inductance factor | | | | | |
|-------------------|-------|-------|-------|-----------------------|--|
| Material | Value | Tol + | Tol - | Unit | |
| 3C91 | 6950 | 25% | 25% | nH/turns ² | |
| 3C92 | 4100 | 25% | 25% | nH/turns ² | |
| 3C94 | 5200 | 25% | 25% | nH/turns ² | |
| 3C95 | 6950 | 25% | 25% | nH/turns ² | |
| 3F36 | 3500 | 25% | 25% | nH/turns ² | |

| Power loss: 3C91 | | | | | |
|----------------------|--------|--------|--------|-------|--|
| Measuring conditions | | | Max | Unit | |
| 100 kHz | 200 mT | 60 °C | 11.000 | W/set | |
| Power loss: 3C92 | | | | | |
| Measuring conditions | | | Max | Unit | |
| 100 kHz | 200 mT | 100 °C | 11.000 | W/set | |
| Power loss: 3C94 | | | | | |
| Measuring conditions | | | Max | Unit | |
| 100 kHz | 200 mT | 100 °C | 11.000 | W/set | |

Core **E42/21/20**

| Power loss: 3C95 | | | | |
|----------------------|--------|--------|--------|-------|
| Measuring conditions | | | Max | Unit |
| 100 kHz | 200 mT | 100 °C | 11.000 | W/set |
| 100 kHz | 200 mT | 25 °C | 12.000 | W/set |
| Power loss: 3F36 | | | | |
| Measuring conditions | | | Max | Unit |
| 500 kHz | 50 mT | 100 °C | 3.900 | W/set |
| 500 kHz | 100 mT | 100 °C | 28.000 | W/set |

| Bsat | | | | | |
|----------------------|---------|--------|----------|-----|------|
| Measuring conditions | | | Material | Min | Unit |
| 25 kHz | 250 A/m | 100 °C | 3C91 | 320 | mT |
| 25 kHz | 250 A/m | 100 °C | 3C92 | 370 | mT |
| 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 | 3F36 | 340 | mT |

| Accessories | | |
|----------------------|---------------------------------------|---------------|
| Ordering name | Description | Ordering code |
| CP-E42/21/20-1S | Coil former, termoplastic | 433500027011 |
| CPH-E42/20-1S-12PD-Z | Coil former, termoplastic, horizontal | 433506027121 |