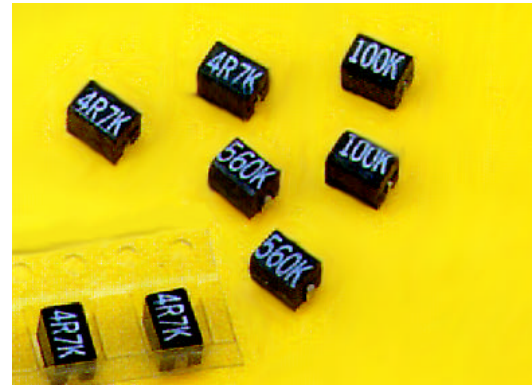


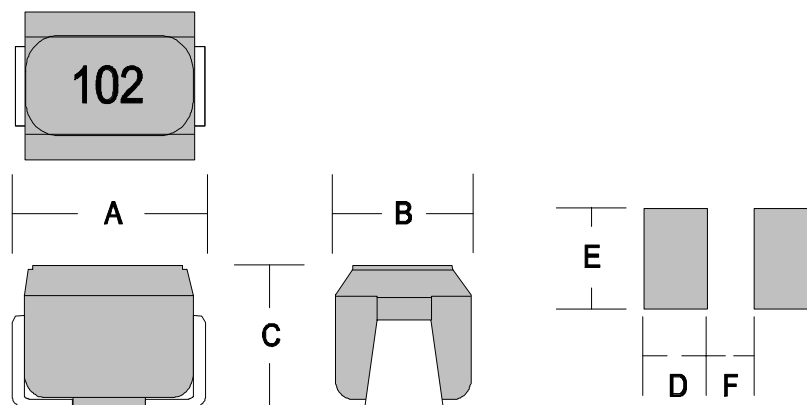
ECM45T Series

- Standard EIA 1812 package
- Wire-wound Construction
- Ferrite Core
- Fully Encapsulated
- Up to 1.0mH +/-10%
- Typical Reel Size 500pcs



The ECM45T range of chip coils offer uniquely high quality of operation, with excellent mechanical and electrical characteristics including solvent resistance conforming to MIL202E specifications. The ferrite core is totally enclosed within the resin body of the component. This popular EIA 1812 package offers excellent workability as well as reliability making it suitable for a diverse range of applications including, Automotive security, Modems, and Low Band UHF Filter applications.

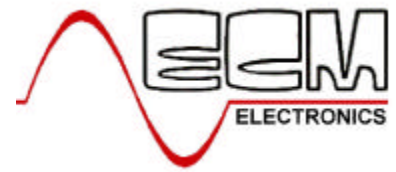
COMPONENT OUTLINE



DIMENSIONS (mm)

| A | B | C | D | E | F |
|------|------|------|------|------|------|
| 4.50 | 3.20 | 3.20 | 1.80 | 2.20 | 1.50 |

ECM 1812 SMD Chip Inductor



| ECM Part | L (mH) | Tol % | Q Min. (**MHz) | SRF Min. (MHz) | R_{DC} MAX (W) | I_{DC} I_N (mA) |
|-----------------|---------------|--------------|-----------------------|-----------------------|-------------------------------|--|
| ECM45T-R10 | 0.10 @100MHz | K | 30 | 700 | 0.44 | 450 |
| ECM45T-R12 | 0.12 @25.2MHz | K | 30 | 500 | 0.22 | 450 |
| ECM45T-R15 | 0.15 @25.2MHz | K | 30 | 450 | 0.25 | 450 |
| ECM45T-R18 | 0.18 @25.2MHz | K | 30 | 400 | 0.28 | 450 |
| ECM45T-R22 | 0.22 @25.2MHz | K | 30 | 350 | 0.32 | 450 |
| ECM45T-R27 | 0.27 @25.2MHz | K | 30 | 350 | 0.36 | 450 |
| ECM45T-R33 | 0.33 @25.2MHz | K | 30 | 300 | 0.40 | 450 |
| ECM45T-R39 | 0.39 @25.2MHz | K | 30 | 350 | 0.45 | 450 |
| ECM45T-R47 | 0.47 @25.2MHz | K | 30 | 250 | 0.50 | 450 |
| ECM45T-R56 | 0.56 @25.2MHz | K | 30 | 180 | 0.55 | 450 |
| ECM45T-R68 | 0.68 @25.2MHz | K | 30 | 160 | 0.60 | 450 |
| ECM45T-R82 | 0.82 @25.2MHz | K | 30 | 140 | 0.67 | 450 |
| ECM45T-1R0 | 1.0 @7.96MHz | K | 50 | 100 | 0.50 | 450 |
| ECM45T-1R2 | 1.2 @7.96MHz | K | 50 | 80 | 0.55 | 430 |
| ECM45T-1R5 | 1.5 @7.96MHz | K | 50 | 70 | 0.60 | 410 |
| ECM45T-1R8 | 1.8 @7.96MHz | K | 50 | 60 | 0.65 | 390 |
| ECM45T-2R2 | 2.2 @7.96MHz | K | 50 | 55 | 0.70 | 380 |
| ECM45T-2R7 | 2.7 @7.96MHz | K | 50 | 50 | 0.75 | 310 |
| ECM45T-3R3 | 3.3 @7.96MHz | K | 50 | 45 | 0.80 | 355 |
| ECM45T-3R9 | 3.9 @7.96MHz | K | 50 | 40 | 0.90 | 330 |
| ECM45T-4R7 | 4.7 @7.96MHz | K | 50 | 35 | 1.0 | 315 |
| ECM45T-5R6 | 5.6 @7.96MHz | K | 50 | 33 | 1.1 | 300 |
| ECM45T-6R8 | 6.8 @7.96MHz | K | 50 | 27 | 1.2 | 285 |
| ECM45T-8R2 | 8.2 @7.96MHz | K | 50 | 25 | 1.4 | 270 |
| ECM45T-100 | 10 @2.52MHz | K | 50 | 50 | 1.6 | 250 |
| ECM45T-120 | 12 @2.52MHz | K | 50 | 18 | 2.0 | 225 |
| ECM45T-150 | 15 @2.52MHz | K | 50 | 17 | 2.5 | 500 |
| ECM45T-180 | 18 @2.52MHz | K | 50 | 15 | 2.8 | 190 |
| ECM45T-220 | 22 @2.52MHz | K | 50 | 13 | 3.2 | 180 |
| ECM45T-270 | 27 @2.52MHz | K | 50 | 12 | 3.6 | 170 |
| ECM45T-330 | 33 @2.52MHz | K | 50 | 11 | 4.0 | 160 |
| ECM45T-390 | 39 @2.52MHz | K | 50 | 10 | 4.5 | 150 |
| ECM45T-470 | 47 @2.52MHz | K | 50 | 10 | 5.0 | 140 |
| ECM45T-560 | 56 @2.52MHz | K | 50 | 9 | 5.5 | 135 |
| ECM45T-680 | 68 @2.52MHz | K | 50 | 9 | 6.0 | 130 |
| ECM45T-820 | 82 @2.52MHz | K | 50 | 8 | 7.5 | 150 |
| ECM45T-101 | 100 @0.796MHz | K | 40 | 7 | 8.0 | 110 |

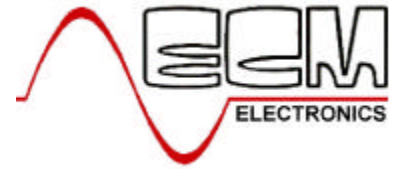
TOLERANCES J=5%; K=10%.

**** = Test Frequency as specified in 'L' column**

ECM Electronics Limited, Penmaen House, Ashington, West Sussex, RH20 3JR, UK
 Tel: +44(0)1903 892810: Fax: +44(0)1903 892738. Email: ecm@ecmelectronics.co.uk

Although we have attempted to accurately reflect the products we market. ECM reserve the right without prior notice to discontinue any product or make design changes we believe necessary.

ECM 1812 SMD Chip Inductor



| ECM Part | L (mH) | Tol % | Q Min. (**MHz) | SRF Min. (MHz) | R_{DC} MAX (W) | I_{DC} I_N (mA) |
|-----------------|----------------|--------------|-----------------------|-----------------------|-------------------------------|--|
| ECM45T-121 | 120 @0.796MHz | K | 40 | 6 | 8.0 | 110 |
| ECM45T-151 | 150 @0.796MHz | K | 40 | 5 | 9.5 | 105 |
| ECM45T-181 | 180 @0.796MHz | K | 40 | 5 | 9.5 | 102 |
| ECM45T-221 | 220 @0.796MHz | K | 40 | 4 | 10 | 100 |
| ECM45T-271 | 270 @0.796MHz | K | 30 | 4 | 12 | 92 |
| ECM45T-331 | 330 @0.796MHz | K | 30 | 3.5 | 14 | 85 |
| ECM45T-391 | 390 @0.796MHz | K | 30 | 3 | 16 | 80 |
| ECM45T-471 | 470 @0.796MHz | K | 30 | 3 | 26 | 62 |
| ECM45T-561 | 560 @0.796MHz | K | 30 | 3 | 30 | 50 |
| ECM45T-681 | 680 @0.796MHz | K | 30 | 3 | 40 | 50 |
| ECM45T-821 | 820 @0.796MHz | K | 30 | 2 | 45 | 30 |
| ECM45T-102 | 1000 @0.796MHz | K | 30 | 2 | 50 | 30 |

TOLERANCE: K=10%.

**** = Test Frequency as specified in 'L' column**

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