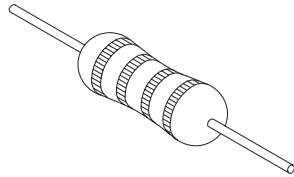




Conformal Coated Chokes

ECM Series



General Specifications

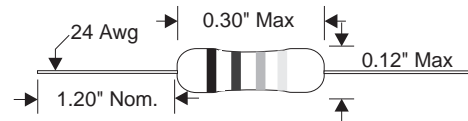
Inductance Range: 0.10 μ H to 1000 μ H
 Operating Temp: -20°C to +105°C
 Terminal Strength: 5 lbs pull test
 Rated Current: Based on coil temperature

Marking



| Color | 1st & 2nd Sig. Fig. | 3rd Multiplier | 4th Tolerance |
|--------|---------------------|----------------|---------------|
| Black | 0 | 1 | ±3% |
| Brown | 1 | 10 | |
| Red | 2 | 100 | |
| Orange | 3 | 1000 | |
| Yellow | 4 | - | |
| Green | 5 | - | |
| Blue | 6 | - | |
| Violet | 7 | - | |
| Grey | 8 | - | |
| White | 9 | - | ±5% |
| Gold | - | 0.1 | |

Dimensions



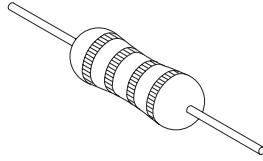
| Part No. | Inductance | | Q (min) | Self-Resonance Frequency [MHz] (min) | DC Resistance [Ohm] (max) | I DC [mA] | Test Frequency [MHz] |
|----------|------------|------|---------|--------------------------------------|---------------------------|-----------|----------------------|
| | [μ H] | Tol. | | | | | |
| ECMR10K | 0.10 | ±10% | 35 | 480 | 0.06 | 1400 | 25.2 |
| ECMR12K | 0.12 | ±10% | 35 | 450 | 0.06 | 1350 | 25.2 |
| ECMR15K | 0.15 | ±10% | 35 | 420 | 0.07 | 1270 | 25.2 |
| ECMR18K | 0.18 | ±10% | 35 | 400 | 0.07 | 1200 | 25.2 |
| ECMR22K | 0.22 | ±10% | 35 | 380 | 0.08 | 1150 | 25.2 |
| ECMR27K | 0.27 | ±10% | 35 | 360 | 0.09 | 1110 | 25.2 |
| ECMR33K | 0.33 | ±10% | 35 | 320 | 0.10 | 1110 | 25.2 |
| ECMR39K | 0.39 | ±10% | 35 | 310 | 0.12 | 1000 | 25.2 |
| ECMR47K | 0.47 | ±10% | 40 | 300 | 0.15 | 1000 | 25.2 |
| ECMR56K | 0.56 | ±10% | 40 | 280 | 0.18 | 950 | 25.2 |
| ECMR68K | 0.68 | ±10% | 40 | 240 | 0.20 | 900 | 25.2 |
| ECMR82K | 0.82 | ±10% | 40 | 200 | 0.22 | 900 | 25.2 |
| ECM1R0K | 1.0 | ±10% | 40 | 180 | 0.25 | 815 | 25.2 |
| ECM1R2K | 1.2 | ±10% | 50 | 160 | 0.28 | 740 | 7.96 |
| ECM1R5K | 1.5 | ±10% | 50 | 140 | 0.30 | 700 | 7.96 |
| ECM1R8K | 1.8 | ±10% | 50 | 120 | 0.35 | 655 | 7.96 |
| ECM2R2K | 2.2 | ±10% | 50 | 110 | 0.40 | 630 | 7.96 |
| ECM2R7K | 2.7 | ±10% | 50 | 85 | 0.45 | 595 | 7.96 |
| ECM3R3K | 3.3 | ±10% | 50 | 70 | 0.50 | 575 | 7.96 |
| ECM3R9K | 3.9 | ±10% | 50 | 65 | 0.55 | 555 | 7.96 |
| ECM4R7K | 4.7 | ±10% | 50 | 50 | 0.60 | 530 | 7.96 |
| ECM5R6K | 5.6 | ±10% | 50 | 40 | 0.65 | 500 | 7.96 |
| ECM6R8K | 6.8 | ±10% | 50 | 30 | 0.70 | 470 | 7.96 |
| ECM8R2K | 8.2 | ±10% | 50 | 28 | 0.80 | 425 | 7.96 |
| ECM100K | 10 | ±10% | 50 | 22 | 0.85 | 370 | 7.96 |
| ECM120K | 12 | ±10% | 50 | 20 | 0.90 | 350 | 2.52 |
| ECM150K | 15 | ±10% | 50 | 16 | 1.00 | 335 | 2.52 |
| ECM180K | 18 | ±10% | 50 | 15 | 1.20 | 315 | 2.52 |
| ECM220K | 22 | ±10% | 50 | 13 | 1.35 | 285 | 2.52 |
| ECM270K | 27 | ±10% | 50 | 11 | 1.80 | 270 | 2.52 |
| ECM330K | 33 | ±10% | 50 | 10 | 2.10 | 255 | 2.52 |
| ECM390K | 39 | ±10% | 50 | 9.5 | 2.30 | 240 | 2.52 |
| ECM470K | 47 | ±10% | 50 | 8.5 | 2.60 | 205 | 2.52 |
| ECM560K | 56 | ±10% | 50 | 7.5 | 2.90 | 195 | 2.52 |
| ECM680K | 68 | ±10% | 50 | 6.5 | 3.20 | 185 | 2.52 |
| ECM820K | 82 | ±10% | 50 | 6.0 | 3.80 | 175 | 2.52 |
| ECM101K | 100 | ±10% | 50 | 5.5 | 4.20 | 165 | 2.52 |
| ECM121K | 120 | ±10% | 50 | 5.4 | 4.50 | 160 | 0.796 |
| ECM151K | 150 | ±10% | 50 | 4.7 | 5.00 | 150 | 0.796 |
| ECM181K | 180 | ±10% | 50 | 4.3 | 6.00 | 140 | 0.796 |
| ECM221K | 220 | ±10% | 50 | 4.0 | 7.00 | 130 | 0.796 |
| ECM271K | 270 | ±10% | 50 | 3.7 | 7.50 | 120 | 0.796 |
| ECM331K | 330 | ±10% | 50 | 3.4 | 8.00 | 100 | 0.796 |
| ECM391K | 390 | ±10% | 50 | 2.8 | 10.00 | 95 | 0.796 |
| ECM471K | 470 | ±10% | 50 | 2.5 | 13.00 | 90 | 0.796 |
| ECM561K | 560 | ±10% | 50 | 2.3 | 15.00 | 85 | 0.796 |
| ECM681K | 680 | ±10% | 50 | 2.0 | 16.00 | 75 | 0.796 |
| ECM821K | 820 | ±10% | 50 | 1.5 | 23.00 | 65 | 0.796 |
| ECM102K | 1000 | ±10% | 50 | 1.2 | 26.00 | 60 | 0.796 |

Specifications are subject to change without notice.



Conformal Coated Chokes

ECS Series



General Specifications

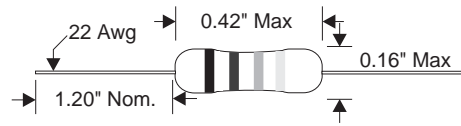
Inductance Range: 0.10 μ H to 2000 μ H
 Operating Temp: -20°C to +105°C
 Terminal Strength: 5 lbs pull test
 Rated Current: Based on coil

Marking



| Color | 1st & 2nd Sig. Fig. | 3rd Multiplier | 4th Tolerance |
|--------|---------------------|----------------|---------------|
| Black | 0 | 1 | ±3% |
| Brown | 1 | 10 | |
| Red | 2 | 100 | |
| Orange | 3 | 1000 | |
| Yellow | 4 | - | |
| Green | 5 | - | |
| Blue | 6 | - | |
| Violet | 7 | - | |
| Grey | 8 | - | |
| White | 9 | - | ±5% |
| Gold | - | 0.1 | |

Dimensions



| Part No. | Inductance | | Q (min) | Self-Resonance Frequency [MHz] (min) | DC Resistance [Ohm] (max) | I DC [mA] | Test Frequency [MHz] |
|----------|------------|------|---------|--------------------------------------|---------------------------|-----------|----------------------|
| | [μ H] | Tol. | | | | | |
| ECSR10K | 0.10 | ±10% | 50 | 480 | 0.06 | 1700 | 25.2 |
| ECSR12K | 0.12 | ±10% | 50 | 450 | 0.06 | 1640 | 25.2 |
| ECSR15K | 0.15 | ±10% | 50 | 420 | 0.07 | 1560 | 25.2 |
| ECSR18K | 0.18 | ±10% | 50 | 400 | 0.07 | 1480 | 25.2 |
| ECSR22K | 0.22 | ±10% | 50 | 380 | 0.08 | 1400 | 25.2 |
| ECSR27K | 0.27 | ±10% | 50 | 340 | 0.09 | 1320 | 25.2 |
| ECSR33K | 0.33 | ±10% | 50 | 300 | 0.10 | 1280 | 25.2 |
| ECSR39K | 0.39 | ±10% | 50 | 280 | 0.12 | 1200 | 25.2 |
| ECSR47K | 0.47 | ±10% | 50 | 250 | 0.13 | 1150 | 25.2 |
| ECSR56K | 0.56 | ±10% | 50 | 230 | 0.14 | 1100 | 25.2 |
| ECSR68K | 0.68 | ±10% | 50 | 210 | 0.15 | 1030 | 25.2 |
| ECSR82K | 0.82 | ±10% | 50 | 172 | 0.16 | 980 | 25.2 |
| ECS1R0K | 1.0 | ±10% | 50 | 157 | 0.17 | 920 | 25.2 |
| ECS1R2K | 1.2 | ±10% | 50 | 144 | 0.18 | 880 | 7.96 |
| ECS1R5K | 1.5 | ±10% | 50 | 131 | 0.20 | 830 | 7.96 |
| ECS1R8K | 1.8 | ±10% | 50 | 121 | 0.22 | 790 | 7.96 |
| ECS2R2K | 2.2 | ±10% | 50 | 110 | 0.24 | 750 | 7.96 |
| ECS2R7K | 2.7 | ±10% | 60 | 100 | 0.25 | 720 | 7.96 |
| ECS3R3K | 3.3 | ±10% | 60 | 94 | 0.30 | 670 | 7.96 |
| ECS3R9K | 3.9 | ±10% | 60 | 86 | 0.35 | 640 | 7.96 |
| ECS4R7K | 4.7 | ±10% | 70 | 80 | 0.40 | 620 | 7.96 |
| ECS5R6K | 5.6 | ±10% | 70 | 74 | 0.45 | 590 | 7.96 |
| ECS6R8K | 6.8 | ±10% | 70 | 68 | 0.50 | 550 | 7.96 |
| ECS8R2K | 8.2 | ±10% | 80 | 53 | 0.60 | 530 | 7.96 |
| ECS100K | 10 | ±10% | 80 | 40 | 0.65 | 500 | 7.96 |
| ECS120K | 12 | ±10% | 70 | 34 | 0.70 | 480 | 2.52 |
| ECS150K | 15 | ±10% | 70 | 20 | 0.75 | 460 | 2.52 |
| ECS180K | 18 | ±10% | 60 | 14 | 0.80 | 430 | 2.52 |
| ECS220K | 22 | ±10% | 60 | 9.9 | 0.90 | 410 | 2.52 |
| ECS270K | 27 | ±10% | 50 | 7.6 | 1.00 | 390 | 2.52 |
| ECS330K | 33 | ±10% | 50 | 6.5 | 1.10 | 370 | 2.52 |
| ECS390K | 39 | ±10% | 50 | 6.5 | 1.20 | 350 | 2.52 |
| ECS470K | 47 | ±10% | 45 | 6.3 | 1.30 | 340 | 2.52 |
| ECS560K | 56 | ±10% | 45 | 6.2 | 1.50 | 320 | 2.52 |
| ECS680K | 68 | ±10% | 40 | 5.7 | 1.80 | 305 | 2.52 |
| ECS820K | 82 | ±10% | 35 | 5.3 | 2.00 | 290 | 2.52 |
| ECS101K | 100 | ±10% | 30 | 4.8 | 2.50 | 275 | 2.52 |
| ECS121K | 120 | ±10% | 60 | 3.8 | 3.00 | 185 | 0.796 |
| ECS151K | 150 | ±10% | 60 | 3.5 | 4.00 | 175 | 0.796 |
| ECS181K | 180 | ±10% | 60 | 3.0 | 4.50 | 165 | 0.796 |
| ECS221K | 220 | ±10% | 60 | 2.8 | 5.00 | 155 | 0.796 |
| ECS271K | 270 | ±10% | 60 | 2.6 | 6.00 | 145 | 0.796 |
| ECS331K | 330 | ±10% | 60 | 2.4 | 6.50 | 137 | 0.796 |
| ECS391K | 390 | ±10% | 55 | 2.0 | 7.50 | 133 | 0.796 |
| ECS471K | 470 | ±10% | 50 | 1.8 | 8.50 | 126 | 0.796 |
| ECS561K | 560 | ±10% | 50 | 1.6 | 9.50 | 120 | 0.796 |
| ECS681K | 680 | ±10% | 45 | 1.6 | 12.00 | 113 | 0.796 |
| ECS821K | 820 | ±10% | 45 | 1.4 | 14.00 | 105 | 0.796 |
| ECS102K | 1000 | ±10% | 40 | 1.2 | 20.00 | 100 | 0.796 |
| ECS122K | 1200 | ±10% | 30 | 0.7 | 32.50 | 90 | 0.252 |
| ECS152K | 1500 | ±10% | 30 | 0.6 | 37.00 | 50 | 0.252 |
| ECS182K | 1800 | ±10% | 30 | 0.5 | 41.00 | 40 | 0.252 |
| ECS222K | 2200 | ±10% | 30 | 0.4 | 45.00 | 30 | 0.252 |

Specifications are subject to change without notice.