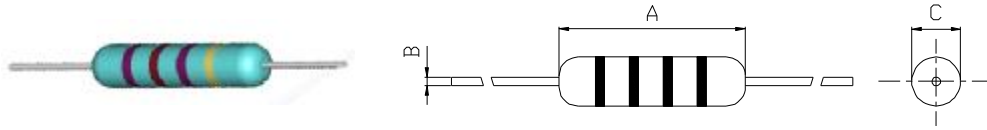


MECHANICALS



I FEATURE

1. Conformal coated inductors .
2. Special magnetic core structure contributes to high Q and Self-Resonant Frequencies .
3. Epoxy coated for better reliability.
4. Wide inductance range.
5. Ideal for auto insertion

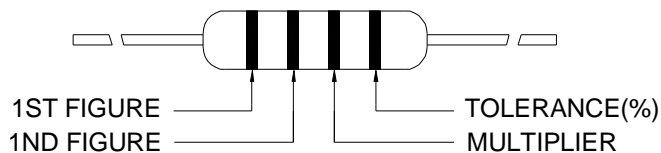
特性

1. 色碼電感結構堅固，成本低廉，適合自動化生產.
2. 特殊鐵芯材質，高 Q 值及自共振頻率.
3. 外層用環氧樹脂處理，可靠度高.
4. 電感範圍大
5. 可自動插件

I DIMENSIONS(UNIT:mm)

| TYPE | A | B | C |
|------|---------|-----------|---------|
| EC36 | 11.0MAX | 0.65±0.05 | 4.0 MAX |
| EC24 | 8.0 MAX | 0.55±0.05 | 3.0 MAX |
| EC22 | 4.0 MAX | 0.50±0.05 | 2.8 MAX |

I COLOR CODE FOR DISCRETE RESISTANCE



There is no tolerance marked for values below 0.1uH

電感值在 0.1uH 以下時,不標示容許公差

| COLOR | 1ST .FIGURE | 2ND. FIGURE | MULTIPLIER | TOLERANCE(%) |
|--------|-------------|-------------|------------|--------------|
| Black | 0 | 0 | 1 | ±20% |
| Brown | 1 | 1 | 10 | |
| Red | 2 | 2 | 100 | |
| Orange | 3 | 3 | 1000 | |
| Yellow | 4 | 4 | — | |
| Green | 5 | 5 | — | |
| Blue | 6 | 6 | — | |
| Purple | 7 | 7 | — | |
| Gray | 8 | 8 | — | |
| White | 9 | 9 | — | |
| gold | — | — | 0.1 | ±5% |
| silver | — | — | 0.01 | ±10% |

NOTE : EC MEANS EPOXY COATED AND TAPING WITH REEL(EC:色碼電感)

I SELECTION GUIDE FOR STANDARD COILS

| PART NO | INDUCTANCE (μ H) | TOLERANCE (%) | Q MIN. | TEST FREQ (MHz) | DC RESISTANCE (Ω)MAX | RATED DC CURRENT (mA)MAX | S.R.F FREQ (MHz)MIN. |
|-----------|--------------------------|------------------|-----------|-----------------------|-------------------------------------|--------------------------------|----------------------------|
| EC36-R10M | 0.10 | $\pm 20\%$ | 50 | 25.2 | 0.20 | 460 | 170 |
| EC36-R12M | 0.12 | $\pm 20\%$ | 50 | 25.2 | 0.20 | 445 | 170 |
| EC36-R15M | 0.15 | $\pm 20\%$ | 50 | 25.2 | 0.25 | 440 | 165 |
| EC36-R18M | 0.18 | $\pm 20\%$ | 50 | 25.2 | 0.30 | 430 | 160 |
| EC36-R22M | 0.22 | $\pm 20\%$ | 50 | 25.2 | 0.40 | 400 | 150 |
| EC36-R27M | 0.27 | $\pm 20\%$ | 35 | 25.2 | 0.43 | 380 | 150 |
| EC36-R33M | 0.33 | $\pm 20\%$ | 35 | 25.2 | 0.48 | 370 | 150 |
| EC36-R39M | 0.39 | $\pm 20\%$ | 35 | 25.2 | 0.51 | 350 | 150 |
| EC36-R47M | 0.47 | $\pm 20\%$ | 35 | 25.2 | 0.56 | 330 | 150 |
| EC36-R56M | 0.56 | $\pm 20\%$ | 35 | 25.2 | 0.61 | 320 | 150 |
| EC36-R68M | 0.68 | $\pm 20\%$ | 35 | 25.20 | 0.67 | 310 | 150 |
| EC36-R82M | 0.82 | $\pm 20\%$ | 35 | 25.20 | 0.74 | 290 | 150 |
| EC36-1R0K | 1.00 | $\pm 10\%$ | 35 | 25.20 | 0.80 | 270 | 150 |
| EC36-1R2K | 1.20 | $\pm 10\%$ | 45 | 7.96 | 0.90 | 260 | 140 |
| EC36-1R5K | 1.50 | $\pm 10\%$ | 45 | 7.96 | 1.00 | 250 | 130 |
| EC36-1R8K | 1.8 | $\pm 10\%$ | 45 | 7.96 | 1.10 | 240 | 120 |
| EC36-2R2K | 2.2 | $\pm 10\%$ | 45 | 7.96 | 1.20 | 230 | 100 |
| EC36-2R7K | 2.7 | $\pm 10\%$ | 45 | 7.96 | 1.30 | 220 | 100 |
| EC36-3R3K | 3.3 | $\pm 10\%$ | 45 | 7.96 | 1.40 | 210 | 90 |
| EC36-3R9K | 3.9 | $\pm 10\%$ | 45 | 7.96 | 1.60 | 200 | 60 |
| EC36-4R7K | 4.7 | $\pm 10\%$ | 45 | 7.96 | 1.70 | 190 | 50 |
| EC36-5R6K | 5.6 | $\pm 10\%$ | 45 | 7.96 | 1.90 | 180 | 40 |
| EC36-6R8K | 6.8 | $\pm 10\%$ | 45 | 7.96 | 2.20 | 175 | 30 |
| EC36-8R2K | 8.2 | $\pm 10\%$ | 45 | 7.96 | 2.20 | 165 | 25 |
| EC36-100K | 10.0 | $\pm 10\%$ | 45 | 7.96 | 2.50 | 160 | 20 |
| EC36-120K | 12 | $\pm 10\%$ | 45 | 2.52 | 2.50 | 150 | 15 |
| EC36-150K | 15 | $\pm 10\%$ | 45 | 2.52 | 3.10 | 145 | 15 |
| EC36-180K | 18 | $\pm 10\%$ | 45 | 2.52 | 3.10 | 140 | 13 |
| EC36-220K | 22 | $\pm 10\%$ | 45 | 2.52 | 3.40 | 130 | 9 |
| EC36-270K | 27 | $\pm 10\%$ | 45 | 2.52 | 4.30 | 125 | 7 |
| EC36-330K | 33 | $\pm 10\%$ | 45 | 2.52 | 4.70 | 110 | 6.0 |
| EC36-390K | 39 | $\pm 10\%$ | 45 | 2.52 | 5.20 | 115 | 6.0 |
| EC36-470K | 47 | $\pm 10\%$ | 45 | 2.52 | 5.80 | 140 | 6.0 |
| EC36-560K | 56 | $\pm 10\%$ | 45 | 2.52 | 6.40 | 130 | 6.0 |
| EC36-680K | 68 | $\pm 10\%$ | 45 | 2.52 | 7.20 | 125 | 6.5 |
| EC36-820K | 82 | $\pm 10\%$ | 45 | 2.520 | 11.0 | 95 | 5.5 |
| EC36-101K | 100 | $\pm 10\%$ | 45 | 2.520 | 12.0 | 90 | 4.5 |
| EC36-121K | 120 | $\pm 10\%$ | 45 | 0.796 | 13.0 | 90 | 3.5 |
| EC36-151K | 150 | $\pm 10\%$ | 45 | 0.796 | 16.0 | 85 | 3.5 |
| EC36-181K | 180 | $\pm 10\%$ | 45 | 0.796 | 18.0 | 80 | 3.0 |
| EC36-221K | 220 | $\pm 10\%$ | 45 | 0.796 | 20.0 | 75 | 3.0 |
| EC36-271K | 270 | $\pm 10\%$ | 45 | 0.796 | 22.0 | 65 | 2.5 |
| EC36-331K | 330 | $\pm 10\%$ | 45 | 0.796 | 22.0 | 60 | 2.5 |
| EC36-391K | 390 | $\pm 10\%$ | 45 | 0.796 | 22.0 | 55 | 2.3 |
| EC36-471K | 470 | $\pm 10\%$ | 45 | 0.796 | 22.0 | 55 | 2.2 |



I SELECTION GUIDE FOR STANDARD COILS

| PART NO | INDUCTANCE (μ H) | TOLERANCE (%) | Q MIN. | TEST FREQ (MHz) | DC RESISTANCE (Ω)MAX | RATED DC CURRENT (mA)MAX | S.R.F FREQ (MHz)MIN. |
|-----------|--------------------------|------------------|-----------|-----------------------|-------------------------------------|--------------------------------|----------------------------|
| EC24-1R0M | 1.0 | $\pm 20\%$ | 45 | 7.96 | 0.18 | 800 | 93 |
| EC24-1R2M | 1.2 | $\pm 20\%$ | 50 | 7.96 | 0.20 | 730 | 86 |
| EC24-1R5M | 1.5 | $\pm 20\%$ | 50 | 7.96 | 0.22 | 700 | 80 |
| EC24-1R8M | 1.8 | $\pm 20\%$ | 55 | 7.96 | 0.24 | 670 | 75 |
| EC24-2R2M | 2.2 | $\pm 20\%$ | 55 | 7.96 | 0.27 | 660 | 70 |
| EC24-2R7M | 2.7 | $\pm 20\%$ | 55 | 7.96 | 0.30 | 650 | 67 |
| EC24-3R3M | 3.3 | $\pm 20\%$ | 60 | 7.96 | 0.34 | 600 | 63 |
| EC24-3R9M | 3.9 | $\pm 20\%$ | 65 | 7.96 | 0.36 | 570 | 43 |
| EC24-4R7M | 4.7 | $\pm 20\%$ | 70 | 7.96 | 0.38 | 550 | 37 |
| EC24-5R6M | 5.6 | $\pm 20\%$ | 70 | 7.96 | 0.40 | 520 | 32 |
| EC24-6R8M | 6.8 | $\pm 20\%$ | 60 | 7.96 | 0.45 | 500 | 25 |
| EC24-8R2M | 8.2 | $\pm 10\%$ | 60 | 7.96 | 0.50 | 460 | 16.5 |
| EC24-100K | 10 | $\pm 10\%$ | 60 | 7.96 | 0.60 | 460 | 14 |
| EC24-120K | 12 | $\pm 10\%$ | 50 | 2.52 | 0.65 | 380 | 12.5 |
| EC24-150K | 15 | $\pm 10\%$ | 50 | 2.52 | 0.74 | 340 | 11 |
| EC24-180K | 18 | $\pm 10\%$ | 50 | 2.52 | 0.80 | 320 | 8.5 |
| EC24-220K | 22 | $\pm 10\%$ | 45 | 2.52 | 0.85 | 310 | 6.8 |
| EC24-270K | 27 | $\pm 10\%$ | 45 | 2.52 | 0.95 | 290 | 4.8 |
| EC24-330K | 33 | $\pm 10\%$ | 45 | 2.52 | 1.10 | 280 | 4.2 |
| EC24-390K | 39 | $\pm 10\%$ | 45 | 2.52 | 1.90 | 220 | 4.2 |
| EC24-470K | 47 | $\pm 10\%$ | 45 | 2.52 | 2.10 | 200 | 4.2 |
| EC24-560K | 56 | $\pm 10\%$ | 40 | 2.52 | 2.30 | 200 | 4.1 |
| EC24-680K | 68 | $\pm 10\%$ | 40 | 2.52 | 2.50 | 190 | 3.8 |
| EC24-820K | 82 | $\pm 10\%$ | 40 | 2.52 | 2.70 | 180 | 3.5 |
| EC24-101K | 100 | $\pm 10\%$ | 40 | 2.52 | 3.40 | 150 | 3.2 |
| EC24-121K | 120 | $\pm 10\%$ | 55 | 0.796 | 4.70 | 150 | 2.5 |
| EC24-151K | 150 | $\pm 10\%$ | 45 | 0.796 | 5.00 | 130 | 2.3 |
| EC24-181K | 180 | $\pm 10\%$ | 50 | 0.796 | 5.65 | 130 | 2.2 |
| EC24-221K | 220 | $\pm 10\%$ | 55 | 0.796 | 6.15 | 120 | 2.0 |
| EC24-271K | 270 | $\pm 10\%$ | 50 | 0.796 | 7.10 | 120 | 1.8 |
| EC24-331K | 330 | $\pm 10\%$ | 50 | 0.796 | 7.70 | 110 | 1.7 |
| EC24-391K | 390 | $\pm 10\%$ | 50 | 0.796 | 10.45 | 100 | 1.6 |
| EC24-471K | 470 | $\pm 10\%$ | 50 | 0.796 | 11.90 | 90 | 1.5 |
| EC24-561K | 560 | $\pm 10\%$ | 50 | 0.796 | 13.25 | 90 | 1.4 |
| EC24-681K | 680 | $\pm 10\%$ | 50 | 0.796 | 15.10 | 80 | 1.3 |
| EC24-821K | 820 | $\pm 10\%$ | 45 | 0.796 | 20.0 | 60 | 1.2 |
| EC24-102K | 1000 | $\pm 10\%$ | 40 | 0.796 | 21.0 | 60 | 0.9 |
| EC24-122K | 1200 | $\pm 10\%$ | 30 | 0.252 | 32.0 | 55 | 0.82 |
| EC24-152K | 1500 | $\pm 10\%$ | 30 | 0.252 | 44.0 | 45 | 0.76 |
| EC24-182K | 1800 | $\pm 10\%$ | 30 | 0.252 | 50.0 | 40 | 0.68 |
| EC24-222K | 2200 | $\pm 10\%$ | 30 | 0.252 | 54.0 | 45 | 0.52 |
| EC24-272K | 2700 | $\pm 10\%$ | 30 | 0.252 | 61.0 | 35 | 0.4 |
| EC24-332K | 3300 | $\pm 10\%$ | 30 | 0.252 | 68.0 | 35 | 0.28 |
| EC24-392K | 3900 | $\pm 10\%$ | 30 | 0.252 | 74.0 | 30 | 0.12 |
| EC24-472K | 4700 | $\pm 10\%$ | 30 | 0.252 | 80.0 | 30 | 0.10 |



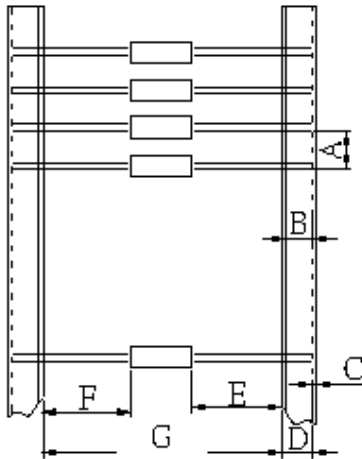
I SELECTION GUIDE FOR STANDARD COILS

| PART NO | INDUCTANCE (μ H) | TOLERANCE (%) | Q MIN. | TEST FREQ (MHz) | DC RESISTANCE (Ω)MAX | RATED DC CURRENT (mA)MAX | S.R.F FREQ (MHz)MIN |
|-----------|--------------------------|------------------|-----------|-----------------------|-------------------------------------|--------------------------------|---------------------------|
| EC22-R10M | 0.10 | $\pm 20\%$ | 50 | 25.2 | 0.20 | 460 | 170 |
| EC22-R12M | 0.12 | $\pm 20\%$ | 35 | 25.2 | 0.20 | 445 | 170 |
| EC22-R15M | 0.15 | $\pm 20\%$ | 35 | 25.2 | 0.25 | 440 | 165 |
| EC22-R18M | 0.18 | $\pm 20\%$ | 35 | 25.2 | 0.30 | 430 | 160 |
| EC22-R22M | 0.22 | $\pm 20\%$ | 35 | 25.2 | 0.40 | 400 | 150 |
| EC22-R27M | 0.27 | $\pm 20\%$ | 35 | 25.2 | 0.43 | 380 | 150 |
| EC22-R33M | 0.33 | $\pm 20\%$ | 35 | 25.2 | 0.48 | 370 | 150 |
| EC22-R39M | 0.39 | $\pm 20\%$ | 35 | 25.2 | 0.51 | 350 | 150 |
| EC22-R47M | 0.47 | $\pm 20\%$ | 35 | 25.2 | 0.56 | 330 | 150 |
| EC22-R56M | 0.56 | $\pm 20\%$ | 35 | 25.2 | 0.61 | 320 | 150 |
| EC22-R68M | 0.68 | $\pm 20\%$ | 35 | 25.2 | 0.67 | 310 | 150 |
| EC22-R82M | 0.82 | $\pm 20\%$ | 35 | 25.2 | 0.74 | 290 | 150 |
| EC22-1R0K | 1.0 | $\pm 10\%$ | 35 | 25.2 | 0.80 | 270 | 150 |
| EC22-1R2K | 1.2 | $\pm 10\%$ | 40 | 7.96 | 0.90 | 260 | 140 |
| EC22-1R5K | 1.5 | $\pm 10\%$ | 45 | 7.96 | 1.00 | 250 | 130 |
| EC22-1R8K | 1.8 | $\pm 10\%$ | 45 | 7.96 | 1.10 | 240 | 120 |
| EC22-2R2K | 2.2 | $\pm 10\%$ | 40 | 7.96 | 1.20 | 230 | 100 |
| EC22-2R7K | 2.7 | $\pm 10\%$ | 40 | 7.96 | 1.30 | 220 | 100 |
| EC22-3R3K | 3.3 | $\pm 10\%$ | 40 | 7.96 | 1.40 | 210 | 90 |
| EC22-3R9K | 3.9 | $\pm 10\%$ | 40 | 7.96 | 1.60 | 200 | 60 |
| EC22-4R7K | 4.7 | $\pm 10\%$ | 40 | 7.96 | 1.70 | 190 | 50 |
| EC22-5R6K | 5.6 | $\pm 10\%$ | 40 | 7.96 | 1.90 | 180 | 40 |
| EC22-6R8K | 6.8 | $\pm 10\%$ | 40 | 7.96 | 2.20 | 175 | 30 |
| EC22-8R2K | 8.2 | $\pm 10\%$ | 40 | 7.96 | 2.20 | 165 | 25 |
| EC22-100K | 10 | $\pm 10\%$ | 40 | 7.96 | 2.50 | 160 | 20 |
| EC22-120K | 12 | $\pm 10\%$ | 45 | 2.52 | 2.50 | 150 | 15 |
| EC22-150K | 15 | $\pm 10\%$ | 45 | 2.52 | 3.10 | 145 | 15 |
| EC22-180K | 18 | $\pm 10\%$ | 45 | 2.52 | 3.10 | 140 | 13 |
| EC22-220K | 22 | $\pm 10\%$ | 45 | 2.52 | 3.40 | 130 | 9 |
| EC22-270K | 27 | $\pm 10\%$ | 45 | 2.52 | 4.30 | 125 | 7 |
| EC22-330K | 33 | $\pm 10\%$ | 40 | 2.52 | 4.70 | 110 | 6.0 |
| EC22-390K | 39 | $\pm 10\%$ | 40 | 2.52 | 5.20 | 115 | 6.0 |
| EC22-470K | 47 | $\pm 10\%$ | 40 | 2.52 | 5.80 | 140 | 6.0 |
| EC22-560K | 56 | $\pm 10\%$ | 60 | 2.52 | 6.40 | 130 | 6.0 |
| EC22-680K | 68 | $\pm 10\%$ | 40 | 2.52 | 7.20 | 125 | 6.5 |
| EC22-820K | 82 | $\pm 10\%$ | 40 | 2.52 | 11.0 | 95 | 5.0 |
| EC22-101K | 100 | $\pm 10\%$ | 40 | 2.52 | 12.0 | 90 | 4.5 |
| EC22-121K | 120 | $\pm 10\%$ | 35 | 0.796 | 13.0 | 90 | 3.5 |
| EC22-151K | 150 | $\pm 10\%$ | 35 | 0.796 | 16.0 | 85 | 3.5 |
| EC22-181K | 180 | $\pm 10\%$ | 35 | 0.796 | 18.0 | 80 | 3.0 |
| EC22-221K | 220 | $\pm 10\%$ | 35 | 0.796 | 20.0 | 75 | 3.0 |
| EC22-271K | 270 | $\pm 10\%$ | 35 | 0.796 | 22.0 | 65 | 2.5 |
| EC22-331K | 330 | $\pm 10\%$ | 35 | 0.796 | 22.0 | 60 | 2.5 |



I PACKING

1. TAPE SPECIFICATIONS



| TYPE | A | B | C | D | 1E-1F | G |
|------|---------|--------|--------|---------|--------|------|
| EC36 | 5.0±0.5 | 5.0MIN | 0.5MAX | 6.0±1.0 | 1.0MAX | 52±2 |
| EC24 | 5.0±0.5 | 5.0MIN | 0.5MAX | 6.0±1.0 | 1.0MAX | 52±2 |
| EC22 | 5.0±0.5 | 5.0MIN | 0.5MAX | 6.0±1.0 | 1.0MAX | 52±2 |