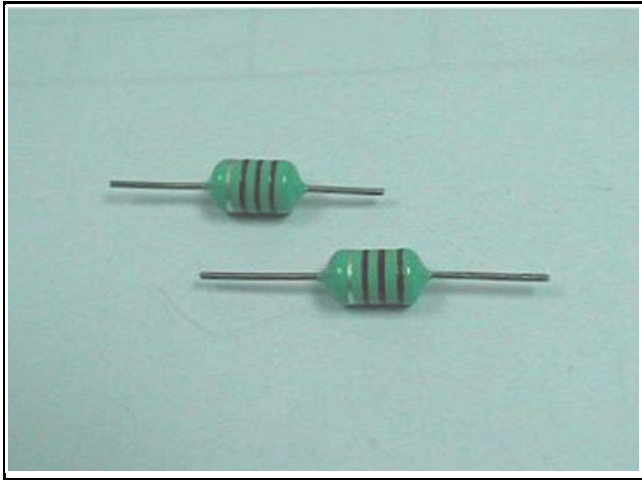


AXIAL FIXED INDUCTORS

ALC SERIES



● FEATYRES

- Low cost solution.
- Exceptional Q characteristics, high reliability.
- High Self-resonant frequency, Low DCR.

● APPLICATIONS

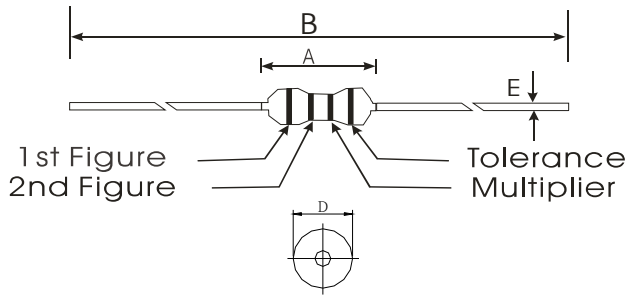
- Choke coils
- RF coils
- peaking coils

● PRODUCT IDENTIFICATIONS

| | | | | | |
|-------------|--------------------------------|---------------------|------------|--------------------------------------|-----------------------------------|
| ALC | 37 | C | 100 | K | R |
| 1 | 2 | 3 | 4 | 5 | 6 |
| SERIES NAME | DIMENSIONS | LEADS CONFIGURATION | INDUCTANCE | TOLERANCE CODE | PACKING CODE |
| 品名 | A:7.00max(mm) B:3.00max(mm) | 結構 | 電感值 | J:±5% K:±10% L:±15% M:±20% N:±25% | R:Tape&reel(卷裝) B:In Bulk (散裝) |
| | 尺寸 | | | 公差 | 包裝 |

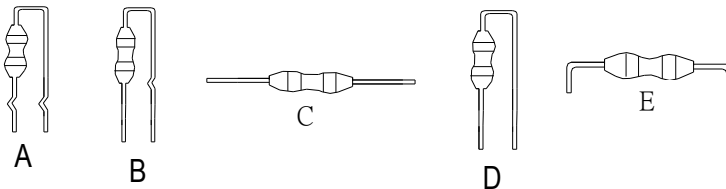
● SHAPES AND DIMENSIONS

UNIT:mm



| TART NUMBER | A(max) | B | D(max) | E |
|-------------|--------|------|--------|----------|
| 品名 | 本體長度 | 總長度 | 本體直徑 | PIN徑 |
| ALC24 | 4.5 | 64±1 | 2.3 | 0.5±0.05 |
| ALC37 | 7.00 | 64±1 | 3.00 | 0.5±0.05 |
| ALC4A | 10.50 | 64±1 | 4.00 | 0.6±0.05 |
| ALC5A | 12.00 | 64±1 | 5.00 | 0.6±0.05 |

● LEADS CONFIGURATION



● COLOR CODE

| COLOR 顏色 | NOMINAL INDUCTANCE(μH) | | | TOLERANCE 允許偏差 |
|-------------|------------------------|----------------------|------------------|-------------------|
| | FIRST FIGURE 第一環 | SECOND FIGURE 第二環 | MULTIPLIER 倍率 | |
| Black 黑 | 0 | | 1 | ±20% |
| Brown 棕 | 1 | | 10 | — |
| Red 紅 | 2 | | 100 | — |
| Orange 橙 | 3 | | 1000 | — |
| Yellow 黃 | 4 | | — | — |
| Green 綠 | 5 | | — | — |
| Blue 藍 | 6 | | — | — |
| Violet 紫 | 7 | | — | — |
| Grey 灰 | 8 | | — | — |
| White 白 | 9 | | — | — |
| Gold 金 | — | | 0.1 | ±5% |
| Silver 銀 | — | | 0.01 | ±10% |

AXIAL FIXED INDUCTORS

ALC SERIES

● **ALC24 SERIES**

| PART NUMBER 品名 | INDUCTANCE (μ H) 電感值 | DC(max) (Ω) 直流電阻 | S.R.F (MHz) 自諧頻率 | IDC(max) (mA) 定格電流 | TEST FREQ (MHz) 測試頻率 |
|-------------------|---------------------------------|---------------------------------|------------------------|--------------------------|----------------------------|
| ALC24_R22M | 0.22 \pm 20% | 0.40 | 150 | 400 | 25.2 |
| ALC24_R27M | 0.27 \pm 20% | 0.43 | 150 | 380 | 25.2 |
| ALC24_R33M | 0.33 \pm 20% | 0.48 | 150 | 370 | 25.2 |
| ALC24_R39M | 0.39 \pm 20% | 0.51 | 150 | 350 | 25.2 |
| ALC24_R47M | 0.47 \pm 20% | 0.56 | 150 | 330 | 25.2 |
| ALC24_R56M | 0.56 \pm 20% | 0.61 | 150 | 320 | 25.2 |
| ALC24_R68M | 0.68 \pm 20% | 0.67 | 150 | 310 | 25.2 |
| ALC24_R82M | 0.82 \pm 20% | 0.74 | 150 | 290 | 25.2 |
| ALC24_1R0M | 1.0 \pm 20% | 0.80 | 150 | 270 | 25.2 |
| ALC24_1R2M | 1.2 \pm 20% | 0.90 | 110 | 260 | 7.96 |
| ALC24_1R5M | 1.5 \pm 20% | 1.00 | 80 | 250 | 7.96 |
| ALC24_1R8M | 1.8 \pm 20% | 1.10 | 60 | 240 | 7.96 |
| ALC24_2R2M | 2.2 \pm 20% | 1.20 | 45 | 230 | 7.96 |
| ALC24_2R7M | 2.7 \pm 20% | 1.30 | 40 | 220 | 7.96 |
| ALC24_3R3K | 3.3 \pm 10% | 1.40 | 38 | 210 | 7.96 |
| ALC24_3R9K | 3.9 \pm 10% | 1.60 | 35 | 200 | 7.96 |
| ALC24_4R7K | 4.7 \pm 10% | 1.70 | 32 | 190 | 7.96 |
| ALC24_5R6K | 5.6 \pm 10% | 1.90 | 30 | 180 | 7.96 |
| ALC24_6R8K | 6.8 \pm 10% | 2.00 | 28 | 175 | 7.96 |
| ALC24_8R2K | 8.2 \pm 10% | 2.20 | 26 | 165 | 7.96 |
| ALC24_100K | 10 \pm 10% | 2.50 | 24 | 160 | 7.96 |
| ALC24_120K | 12 \pm 10% | 2.50 | 22 | 150 | 2.52 |
| ALC24_150K | 15 \pm 10% | 2.80 | 20 | 145 | 2.52 |
| ALC24_180K | 18 \pm 10% | 3.10 | 18 | 140 | 2.52 |
| ALC24_220K | 22 \pm 10% | 3.40 | 17 | 130 | 2.52 |
| ALC24_270K | 27 \pm 10% | 4.30 | 16 | 80 | 2.52 |
| ALC24_330K | 33 \pm 10% | 4.70 | 14 | 76 | 2.52 |
| ALC24_390K | 39 \pm 10% | 5.20 | 13 | 74 | 2.52 |
| ALC24_470K | 47 \pm 10% | 5.80 | 12 | 70 | 2.52 |
| ALC24_560K | 56 \pm 10% | 6.40 | 11 | 68 | 2.52 |
| ALC24_680K | 68 \pm 10% | 7.20 | 10 | 64 | 2.52 |
| ALC24_820K | 82 \pm 10% | 11.00 | 9.5 | 46 | 2.52 |
| ALC24_101K | 100 \pm 10% | 12.00 | 9.0 | 44 | 2.52 |
| ALC24_121k | 120 \pm 10% | 13.00 | 8.0 | 42 | 0.796 |
| ALC24_151k | 150 \pm 10% | 16.00 | 6.0 | 39 | 0.796 |
| ALC24_181k | 180 \pm 10% | 18.00 | 5.5 | 37 | 0.796 |
| ALC24_221k | 220 \pm 10% | 20.00 | 5.0 | 35 | 0.796 |
| ALC24_271k | 270 \pm 10% | 25.00 | 4.6 | 25 | 0.796 |
| ALC24_331K | 330 \pm 10% | 30.00 | 4.2 | 25 | 0.796 |
| ALC24_391K | 390 \pm 10% | 34.00 | 3.8 | 25 | 0.796 |
| ALC24_471K | 470 \pm 10% | 38.00 | 3.5 | 24 | 0.796 |

Test Equipments: HP-4284A or HP-4285A

AXIAL FIXED INDUCTORS

ALC SERIES

● ALC37 SERIES

| PART NUMBER 品名 | INDUCTANCE (μ H) 電感值 | DC(max) (Ω) 直流電阻 | S.R.F (MHz) 自諧頻率 | IDC(max) (mA) 定格電流 | TEST FREQ (MHz) 測試頻率 |
|-------------------|---------------------------------|---------------------------------|------------------------|--------------------------|----------------------------|
| ALC37_R22M | 0.22 \pm 20% | 0.40 | 150 | 400 | 25.2 |
| ALC37_R27M | 0.27 \pm 20% | 0.43 | 150 | 380 | 25.2 |
| ALC37_R33M | 0.33 \pm 20% | 0.48 | 150 | 370 | 25.2 |
| ALC37_R39M | 0.39 \pm 20% | 0.51 | 150 | 350 | 25.2 |
| ALC37_R47M | 0.47 \pm 20% | 0.56 | 150 | 330 | 25.2 |
| ALC37_R56M | 0.56 \pm 20% | 0.61 | 150 | 320 | 25.2 |
| ALC37_R68M | 0.68 \pm 20% | 0.67 | 150 | 310 | 25.2 |
| ALC37_R82M | 0.82 \pm 20% | 0.74 | 150 | 290 | 25.2 |
| ALC37_1R0M | 1.0 \pm 20% | 0.80 | 150 | 270 | 25.2 |
| ALC37_1R2M | 1.2 \pm 20% | 0.90 | 144 | 260 | 7.96 |
| ALC37_1R5M | 1.5 \pm 20% | 1.00 | 131 | 250 | 7.96 |
| ALC37_1R8M | 1.8 \pm 20% | 1.10 | 121 | 240 | 7.96 |
| ALC37_2R2M | 2.2 \pm 20% | 1.20 | 110 | 230 | 7.96 |
| ALC37_2R7M | 2.7 \pm 20% | 1.30 | 100 | 220 | 7.96 |
| ALC37_3R3K | 3.3 \pm 10% | 1.40 | 94 | 210 | 7.96 |
| ALC37_3R9K | 3.9 \pm 10% | 1.60 | 65 | 200 | 7.96 |
| ALC37_4R7K | 4.7 \pm 10% | 1.70 | 56 | 190 | 7.96 |
| ALC37_5R6K | 5.6 \pm 10% | 1.90 | 48 | 180 | 7.96 |
| ALC37_6R8K | 6.8 \pm 10% | 2.00 | 37 | 175 | 7.96 |
| ALC37_8R2K | 8.2 \pm 10% | 2.20 | 25 | 165 | 7.96 |
| ALC37_100K | 10 \pm 10% | 2.50 | 21 | 160 | 7.96 |
| ALC37_120K | 12 \pm 10% | 2.50 | 19 | 150 | 2.52 |
| ALC37_150K | 15 \pm 10% | 2.80 | 17 | 145 | 2.52 |
| ALC37_180K | 18 \pm 10% | 3.10 | 13 | 140 | 2.52 |
| ALC37_220K | 22 \pm 10% | 3.40 | 9.6 | 130 | 2.52 |
| ALC37_270K | 27 \pm 10% | 3.80 | 7.2 | 125 | 2.52 |
| ALC37_330K | 33 \pm 10% | 4.10 | 6.3 | 120 | 2.52 |
| ALC37_390K | 39 \pm 10% | 4.50 | 6.3 | 115 | 2.52 |
| ALC37_470K | 47 \pm 10% | 4.90 | 6.3 | 110 | 2.52 |
| ALC37_560K | 56 \pm 10% | 5.30 | 6.2 | 105 | 2.52 |
| ALC37_680K | 68 \pm 10% | 5.80 | 5.7 | 100 | 2.52 |
| ALC37_820K | 82 \pm 10% | 6.30 | 5.3 | 95 | 2.52 |
| ALC37_101K | 100 \pm 10% | 7.00 | 4.8 | 90 | 2.52 |
| ALC37_121k | 120 \pm 10% | 13.0 | 3.8 | 90 | 0.796 |
| ALC37_151k | 150 \pm 10% | 15.0 | 3.5 | 85 | 0.796 |
| ALC37_181k | 180 \pm 10% | 16.0 | 3.3 | 80 | 0.796 |
| ALC37_221k | 220 \pm 10% | 17.0 | 3.0 | 75 | 0.796 |
| ALC37_271k | 270 \pm 10% | 19.0 | 2.8 | 65 | 0.796 |
| ALC37_331K | 330 \pm 10% | 20.0 | 2.6 | 60 | 0.796 |
| ALC37_391K | 390 \pm 10% | 22.0 | 2.4 | 55 | 0.796 |
| ALC37_471K | 470 \pm 10% | 24.0 | 2.25 | 55 | 0.796 |
| ALC37_561K | 560 \pm 10% | 26.0 | 2.10 | 50 | 0.796 |
| ALC37_681K | 680 \pm 10% | 28.0 | 1.95 | 45 | 0.796 |
| ALC37_821K | 820 \pm 10% | 30.0 | 1.85 | 40 | 0.796 |
| ALC37_102K | 1000 \pm 10% | 33.0 | 1.40 | 40 | 0.796 |

Test Equipments: HP-4284A or HP-4285A

AXIAL FIXED INDUCTORS

ALC SERIES

● ALC4A SERIES

| PART NUMBER 品名 | INDUCTANCE (μ H) 電感値 | DC(max) (Ω) 直流電阻 | S.R.F (MHz) 自諧頻率 | IDC(max) (mA) 定格電流 | TEST FREQ (MHz) 測試頻率 |
|-------------------|---------------------------------|---------------------------------|------------------------|--------------------------|----------------------------|
| ALC4A_R22M | 0.22 \pm 20% | 0.10 | 300 | 1400 | 25.2 |
| ALC4A_R27M | 0.27 \pm 20% | 0.11 | 270 | 1320 | 25.2 |
| ALC4A_R33M | 0.33 \pm 20% | 0.12 | 250 | 1280 | 25.2 |
| ALC4A_R39M | 0.39 \pm 20% | 0.13 | 230 | 1200 | 25.2 |
| ALC4A_R47M | 0.47 \pm 20% | 0.14 | 220 | 1150 | 25.2 |
| ALC4A_R56M | 0.56 \pm 20% | 0.15 | 200 | 1100 | 25.2 |
| ALC4A_R68M | 0.68 \pm 20% | 0.16 | 190 | 1030 | 25.2 |
| ALC4A_R82M | 0.82 \pm 20% | 0.17 | 172 | 980 | 25.2 |
| ALC4A_1R0M | 1.0 \pm 20% | 0.19 | 157 | 920 | 25.2 |
| ALC4A_1R2M | 1.2 \pm 20% | 0.21 | 144 | 880 | 7.96 |
| ALC4A_1R5M | 1.5 \pm 20% | 0.23 | 131 | 830 | 7.96 |
| ALC4A_1R8M | 1.8 \pm 20% | 0.25 | 121 | 790 | 7.96 |
| ALC4A_2R2M | 2.2 \pm 20% | 0.28 | 110 | 750 | 7.96 |
| ALC4A_2R7M | 2.7 \pm 20% | 0.30 | 100 | 720 | 7.96 |
| ALC4A_3R3K | 3.3 \pm 10% | 0.34 | 94 | 670 | 7.96 |
| ALC4A_3R9K | 3.9 \pm 10% | 0.37 | 55 | 640 | 7.96 |
| ALC4A_4R7K | 4.7 \pm 10% | 0.39 | 56 | 620 | 7.96 |
| ALC4A_5R6K | 5.6 \pm 10% | 0.43 | 48 | 590 | 7.96 |
| ALC4A_6R8K | 6.8 \pm 10% | 0.48 | 37 | 550 | 7.96 |
| ALC4A_8R2K | 8.2 \pm 10% | 0.52 | 25 | 530 | 7.96 |
| ALC4A_100K | 10 \pm 10% | 0.58 | 21 | 500 | 7.96 |
| ALC4A_120K | 12 \pm 10% | 0.63 | 19 | 480 | 2.52 |
| ALC4A_150K | 15 \pm 10% | 0.72 | 17 | 460 | 2.52 |
| ALC4A_180K | 18 \pm 10% | 0.77 | 13 | 430 | 2.52 |
| ALC4A_220K | 22 \pm 10% | 0.84 | 9.6 | 410 | 2.52 |
| ALC4A_270K | 27 \pm 10% | 0.94 | 7.2 | 390 | 2.52 |
| ALC4A_330K | 33 \pm 10% | 1.03 | 6.6 | 370 | 2.52 |
| ALC4A_390K | 39 \pm 10% | 1.12 | 6.6 | 350 | 2.52 |
| ALC4A_470K | 47 \pm 10% | 1.22 | 6.3 | 340 | 2.52 |
| ALC4A_560K | 56 \pm 10% | 1.34 | 6.2 | 320 | 2.52 |
| ALC4A_680K | 68 \pm 10% | 1.47 | 5.7 | 305 | 2.52 |
| ALC4A_820K | 82 \pm 10% | 1.62 | 5.3 | 290 | 2.52 |
| ALC4A_101K | 100 \pm 10% | 1.80 | 4.8 | 275 | 2.52 |
| ALC4A_121k | 120 \pm 10% | 3.70 | 3.8 | 185 | 0.796 |
| ALC4A_151k | 150 \pm 10% | 4.20 | 3.5 | 175 | 0.796 |
| ALC4A_181k | 180 \pm 10% | 4.60 | 3.3 | 165 | 0.796 |
| ALC4A_221k | 220 \pm 10% | 5.10 | 3.0 | 155 | 0.796 |
| ALC4A_271k | 270 \pm 10% | 5.80 | 2.8 | 145 | 0.796 |
| ALC4A_331K | 330 \pm 10% | 6.40 | 2.6 | 137 | 0.796 |
| ALC4A_391K | 390 \pm 10% | 7.00 | 2.4 | 133 | 0.796 |
| ALC4A_471K | 470 \pm 10% | 7.70 | 2.25 | 126 | 0.796 |
| ALC4A_561K | 560 \pm 10% | 8.50 | 2.10 | 120 | 0.796 |
| ALC4A_681K | 680 \pm 10% | 9.40 | 1.95 | 113 | 0.796 |
| ALC4A_821K | 820 \pm 10% | 10.5 | 1.85 | 105 | 0.796 |
| ALC4A_102K | 1000 \pm 10% | 14.0 | 1.40 | 100 | 0.796 |

Test Equipments: HP-4284A or HP-4285A

AXIAL FIXED INDUCTORS

ALC SERIES

● **ALC5A SERIES**

| PART NUMBER 品名 | INDUCTANCE (μ H) 電感值 | DC(max) (Ω) 直流電阻 | S.R.F (MHz) 自諧頻率 | IDC(max) (mA) 定格電流 | TEST FREQ (MHz) 測試頻率 |
|-------------------|---------------------------------|---------------------------------|------------------------|--------------------------|----------------------------|
| ALC5A_471K | 470 \pm 10% | 7.70 | 1.90 | 126 | 0.796 |
| ALC5A_561K | 560 \pm 10% | 8.50 | 1.80 | 120 | 0.796 |
| ALC5A_681K | 680 \pm 10% | 9.00 | 1.50 | 113 | 0.796 |
| ALC5A_821K | 820 \pm 10% | 10.5 | 1.20 | 105 | 0.796 |
| ALC5A_102K | 1000 \pm 10% | 14.0 | 1.00 | 100 | 0.252 |
| ALC5A_122K | 1200 \pm 10% | 16.9 | 0.95 | 95 | 0.252 |
| ALC5A_152K | 1500 \pm 10% | 21.6 | 0.90 | 90 | 0.252 |
| ALC5A_182K | 1800 \pm 10% | 24.0 | 0.85 | 85 | 0.252 |
| ALC5A_222K | 2200 \pm 10% | 34.7 | 0.8 | 80 | 0.252 |
| ALC5A_272K | 2700 \pm 10% | 40.0 | 0.75 | 75 | 0.252 |
| ALC5A_332K | 3300 \pm 10% | 59.5 | 0.70 | 62 | 0.252 |
| ALC5A_392K | 3900 \pm 10% | 66.0 | 0.65 | 59 | 0.252 |
| ALC5A_472K | 4700 \pm 10% | 74.0 | 0.60 | 55 | 0.252 |
| ALC5A_562K | 5600 \pm 10% | 80.0 | 0.50 | 40 | 0.252 |
| ALC5A_682K | 6800 \pm 10% | 85.0 | 0.45 | 35 | 0.252 |
| ALC5A_822K | 8200 \pm 10% | 95.0 | 0.40 | 30 | 0.252 |
| ALC5A_103K | 10000 \pm 10% | 105 | 0.35 | 25 | 0.252 |

Test Equipments: HP-4284A or HP-4285A