

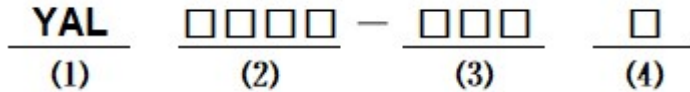
■ Features

- Low cost and high reliability.
- Coating epoxy resin that ensures the humidity resistance to be long life.
- Design to be compact, small and light-weight, wide range of inductance.
- Contribute to be high Q and self-resonant frequencies.
- Tapping type that is convenient for automatic insertion.
- Operating temperature: -40°C ~ +125°C.

■ Applications

- Electronics products.
- Communication equipment.
- Computer Devices.
- TV, VCR and radios.

■ Product Identification



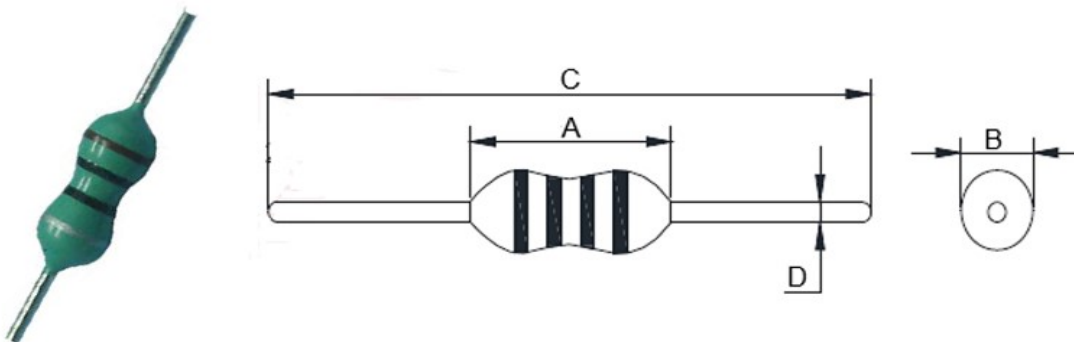
(1) : Type

(2) : Dimensions

(3) : Inductance value

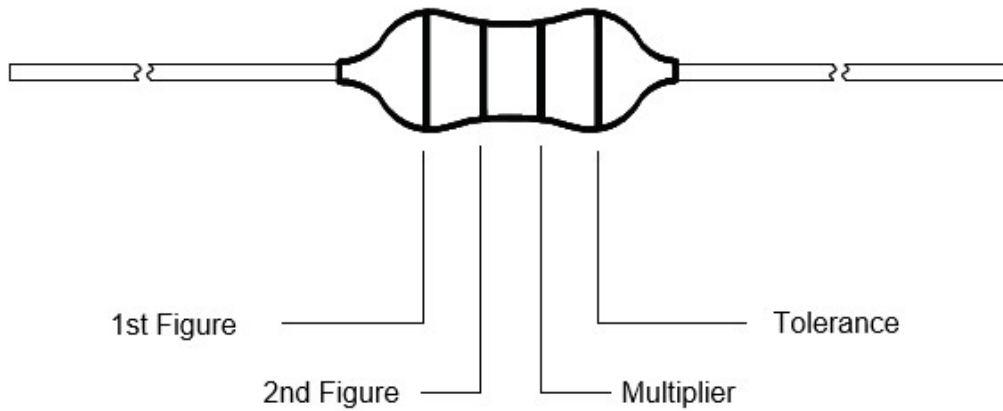
(4): Inductance Tolerance: N=±30%, M=±20%, K=±10%, J=±5%

■ Shapes and Dimensions (Unit: mm)



| TYPE | A Max. | B Max. | C | D Fef. |
|---------|--------|--------|----------|--------|
| YAL0307 | 8.0 | 3.0 | 62.0±2.0 | 0.50 |

Color Coding



| Color | Nominal inductance (uH) | | | |
|-----------------|-------------------------|------------|------------|-----------|
| | 1st Figure | 2nd Figure | Multiplier | Tolerance |
| Black 黑 | 0 | | ×1 | ±20% |
| Brown 棕 | 1 | | ×10 | — |
| Red 红 | 2 | | ×100 | — |
| Orange 橙 | 3 | | ×1000 | — |
| Yellow 黄 | 4 | | — | — |
| Green 绿 | 5 | | — | — |
| Blue 蓝 | 6 | | — | — |
| Violet 紫 | 7 | | — | — |
| Gray 灰 | 8 | | — | — |
| White 白 | 9 | | — | — |
| Gold 金 | — | | ×0.1 | ±5% |
| Silver 银 | — | | ×0.01 | ±10% |

■ YAL0307 Series

| Part Number | L(uH) | Q Min | L.Q Test Freq. (MHz) | SRF Min (MHz) | DCR Max.(Ω) | Rated Current(mA) | Color code | | | |
|--------------|-------|----------|----------------------------|------------------|----------------|----------------------|------------|-----|-----|-----|
| | | | | | | | 1st | 2nd | 3rd | 4th |
| YAL0307-R10□ | 0.10 | 40 | 25.2 | 480 | 0.060 | 1400 | Bn | Bk | S | Bk |
| YAL0307-R12□ | 0.12 | 40 | 25.2 | 450 | 0.060 | 1350 | Bn | R | S | Bk |
| YAL0307-R15□ | 0.15 | 40 | 25.2 | 420 | 0.070 | 1270 | Bn | Gn | S | Bk |
| YAL0307-R18□ | 0.18 | 40 | 25.2 | 400 | 0.070 | 1200 | Bn | Gy | S | Bk |
| YAL0307-R22□ | 0.22 | 40 | 25.2 | 380 | 0.080 | 1150 | R | R | S | Bk |
| YAL0307-R27□ | 0.27 | 40 | 25.2 | 360 | 0.085 | 1110 | R | V | S | Bk |
| YAL0307-R33□ | 0.33 | 40 | 25.2 | 350 | 0.095 | 1110 | O | O | S | Bk |
| YAL0307-R39□ | 0.39 | 40 | 25.2 | 320 | 0.100 | 1000 | O | W | S | Bk |
| YAL0307-R47□ | 0.47 | 40 | 25.2 | 300 | 0.110 | 1000 | Y | V | S | Bk |
| YAL0307-R56□ | 0.56 | 40 | 25.2 | 280 | 0.120 | 950 | Gn | Be | S | Bk |
| YAL0307-R68□ | 0.68 | 40 | 25.2 | 250 | 0.130 | 900 | Be | Gy | S | Bk |
| YAL0307-R82□ | 0.82 | 40 | 25.2 | 200 | 0.140 | 900 | Gy | R | S | Bk |
| YAL0307-1R0□ | 1.00. | 40 | 25.2 | 180 | 0.150 | 815 | Bn | Bk | Gd | S |
| YAL0307-1R2□ | 1.20 | 40 | 7.96 | 165 | 0.180 | 740 | Bn | R | Gd | S |
| YAL0307-1R5□ | 1.50 | 50 | 7.96 | 150 | 0.200 | 700 | Bn | Gn | Gd | S |
| YAL0307-1R8□ | 1.80 | 70 | 7.96 | 125 | 0.230 | 655 | Bn | Gy | Gd | S |
| YAL0307-2R2□ | 2.20 | 50 | 7.96 | 110 | 0.250 | 630 | R | R | Gd | S |
| YAL0307-2R7□ | 2.70 | 60 | 7.96 | 95 | 0.280 | 595 | R | V | Gd | S |
| YAL0307-3R3□ | 3.30 | 60 | 7.96 | 75 | 0.300 | 575 | O | O | Gd | S |
| YAL0307-3R9□ | 3.90 | 60 | 7.96 | 65 | 0.320 | 555 | O | W | Gd | S |
| YAL0307-4R7□ | 4.70 | 50 | 7.96 | 50 | 0.350 | 530 | Y | V | Gd | S |
| YAL0307-5R6□ | 5.60 | 50 | 7.96 | 40 | 0.400 | 500 | Gn | Be | Gd | S |

■ YAL0307 Series

| Part Number | L(uH) | Q Min | L.Q Test Freq. (MHz) | SRF Min (MHz) | DCR Max.(Ω) | Rated Current(mA) | Color code | | | |
|--------------|-------|----------|----------------------------|------------------|----------------|----------------------|------------|-----|-----|-----|
| | | | | | | | 1st | 2nd | 3rd | 4th |
| YAL0307-6R8□ | 6.80 | 50 | 7.96 | 30 | 0.450 | 470 | Be | Gy | Gd | S |
| YAL0307-8R2□ | 8.20 | 50 | 7.96 | 28 | 0.550 | 425 | Gy | R | Gd | S |
| YAL0307-100□ | 10.0 | 50 | 7.96 | 22 | 0.720 | 370 | Bn | Bk | Bk | S |
| YAL0307-120□ | 12.0 | 50 | 2.52 | 20 | 0.800 | 350 | Bn | R | Bk | S |
| YAL0307-150□ | 15.0 | 50 | 2.52 | 16 | 0.930 | 335 | Bn | Gn | Bk | S |
| YAL0307-180□ | 18.0 | 50 | 2.52 | 15 | 1.000 | 315 | Bn | Gy | Bk | S |
| YAL0307-220□ | 22.0 | 60 | 2.52 | 13 | 1.200 | 285 | R | R | Bk | S |
| YAL0307-270□ | 27.0 | 60 | 2.52 | 11 | 1.800 | 270 | R | V | Bk | S |
| YAL0307-330□ | 33.0 | 50 | 2.52 | 10 | 2.100 | 255 | O | O | Bk | S |
| YAL0307-390□ | 39.0 | 50 | 2.52 | 9.5 | 2.300 | 240 | O | W | Bk | S |
| YAL0307-470□ | 47.0 | 60 | 2.52 | 8.5 | 2.600 | 205 | Y | V | Bk | S |
| YAL0307-560□ | 56.0 | 60 | 2.52 | 7.5 | 2.900 | 195 | Gn | Be | Bk | S |
| YAL0307-680□ | 68.0 | 60 | 2.52 | 6.5 | 3.300 | 185 | Be | Gy | Bk | S |
| YAL0307-820□ | 82.0 | 55 | 2.52 | 6.0 | 3.800 | 175 | Gy | R | Bk | S |
| YAL0307-101□ | 100 | 60 | 2.52 | 5.5 | 4.200 | 165 | Bn | Bk | Bn | S |
| YAL0307-121□ | 120 | 75 | 0.796 | 5.4 | 4.700 | 160 | Bn | R | Bn | S |
| YAL0307-151□ | 150 | 75 | 0.796 | 4.75 | 5.400 | 150 | Bn | Gn | Bn | S |
| YAL0307-181□ | 180 | 75 | 0.796 | 4.35 | 6.000 | 140 | Bn | Gy | Bn | S |
| YAL0307-221□ | 220 | 75 | 0.796 | 4.00 | 7.000 | 130 | R | R | Bn | S |
| YAL0307-271□ | 270 | 70 | 0.796 | 3.70 | 7.700 | 120 | R | V | Bn | S |
| YAL0307-331□ | 330 | 70 | 0.796 | 3.40 | 9.500 | 100 | O | O | Bn | S |
| YAL0307-391□ | 390 | 70 | 0.796 | 2.80 | 10.50 | 95 | O | W | Bn | S |

■ YAL0307 Series

| Part Number | L(uH) | Q Min | L.Q Test Freq. (MHz) | SRF Min (MHz) | DCR Max.(Ω) | Rated Current(mA) | Color code | | | |
|--------------|-------|----------|----------------------------|------------------|----------------|----------------------|------------|-----|-----|-----|
| | | | | | | | 1st | 2nd | 3rd | 4th |
| YAL0307-471□ | 470 | 70 | 0.796 | 2.55 | 12.50 | 90 | Y | V | Bn | S |
| YAL0307-561□ | 560 | 70 | 0.796 | 2.35 | 14.50 | 85 | Gn | Be | Bn | S |
| YAL0307-681□ | 680 | 70 | 0.796 | 2.00 | 18.00 | 75 | Be | Gy | Bn | S |
| YAL0307-821□ | 820 | 60 | 0.796 | 1.60 | 23.70 | 65 | Gy | R | Bn | S |
| YAL0307-102□ | 1000 | 60 | 0.796 | 1.20 | 30.00 | 60 | Bn | Bk | R | S |

- ※ The saturation current value is the DC current value having inductance decrease down to 30%.(at 20°C)
- ※ The temperature rise current value is the DC current value having temperature increase up to 40°C. (at 20°C)
- ※ The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.