



Chilisin Electronics Singapore Pte Ltd

Axial Leaded Inductors, AL Series

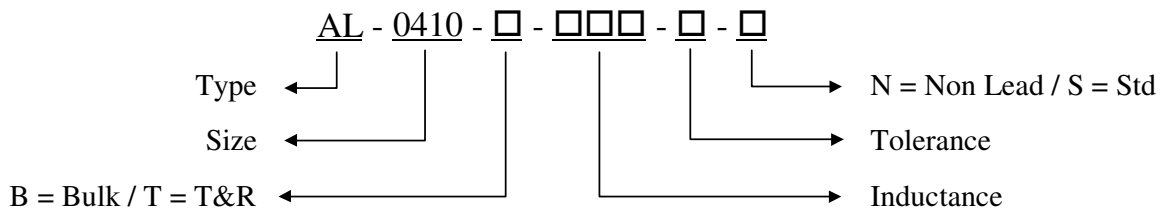


Feature:

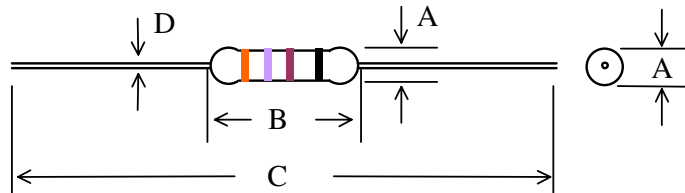


- 1) Small Size, light weight and Low cost
- 2) Wide range of Inductance
- 3) High Q Performance
- 4) High Self Resonant Frequency (SRF)

Ordering Code:



Dimension in mm:



| Product | A | B | C | D |
|-------------------|-----------|------------|------------|--------|
| AL-0204-□-□□□-□-□ | 2.3mm Max | 4.0mm Max | 62mm ± 3mm | 0.5mm |
| AL-0307-□-□□□-□-□ | 3.0mm Max | 7.0mm Max | 62mm ± 3mm | 0.65mm |
| AL-0410-□-□□□-□-□ | 4.0mm Max | 10.5mm Max | 62mm ± 3mm | 0.65mm |

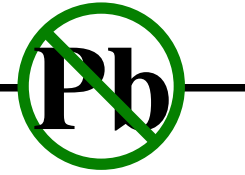
Electrical:

| Part Number | Inductance | Current |
|-------------------|--------------------|-------------------|
| AL-0204-□-□□□-□-□ | 0.22 μH to 220 μH | 400 mA to 35 mA |
| AL-0307-□-□□□-□-□ | 0.22 μH to 1000 μH | 400 mA to 40 mA |
| AL-0410-□-□□□-□-□ | 0.22 μH to 1000 μH | 1400 mA to 100 mA |



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Electrical Characteristics:

| Part Number | Inductance μH | Q min | Test Freq. MHz | SRF MHz Min | DCR Ω Max | IDC mA Max |
|------------------|-----------------------------|----------|-------------------|----------------|---------------------|---------------|
| AL-0204-□-R22M-□ | 0.22 ± 20% | 35 | 25.2 | 150 | 0.40 | 400 |
| AL-0204-□-R27M-□ | 0.27 ± 20% | 35 | 25.2 | 150 | 0.43 | 380 |
| AL-0204-□-R33M-□ | 0.33 ± 20% | 35 | 25.2 | 150 | 0.48 | 370 |
| AL-0204-□-R39M-□ | 0.39 ± 20% | 35 | 25.2 | 150 | 0.51 | 350 |
| AL-0204-□-R47M-□ | 0.47 ± 20% | 35 | 25.2 | 150 | 0.56 | 330 |
| AL-0204-□-R56M-□ | 0.56 ± 20% | 35 | 25.2 | 150 | 0.61 | 320 |
| AL-0204-□-R68M-□ | 0.68 ± 20% | 35 | 25.2 | 150 | 0.67 | 310 |
| AL-0204-□-R82M-□ | 0.82 ± 20% | 35 | 25.2 | 150 | 0.74 | 290 |
| AL-0204-□-1R0□-□ | 1.0 ± 20% ±10% | 35 | 25.2 | 120 | 0.80 | 270 |
| AL-0204-□-1R2□-□ | 1.2 ± 20% ±10% | 40 | 7.96 | 110 | 0.90 | 260 |
| AL-0204-□-1R5□-□ | 1.5 ± 20% ±10% | 40 | 7.96 | 80 | 1.0 | 250 |
| AL-0204-□-1R8□-□ | 1.8 ± 20% ±10% | 40 | 7.96 | 60 | 1.1 | 240 |
| AL-0204-□-2R2□-□ | 2.2 ± 20% ±10% | 40 | 7.96 | 45 | 1.2 | 230 |
| AL-0204-□-2R7□-□ | 2.7 ± 20% ±10% | 40 | 7.96 | 40 | 1.3 | 220 |
| AL-0204-□-3R3□-□ | 3.3 ± 20% ±10% | 40 | 7.96 | 38 | 1.4 | 210 |
| AL-0204-□-3R9□-□ | 3.9 ± 20% ±10% | 40 | 7.96 | 25 | 1.6 | 200 |
| AL-0204-□-4R7□-□ | 4.7 ± 20% ±10% | 40 | 7.96 | 32 | 1.7 | 190 |
| AL-0204-□-5R6□-□ | 5.6 ± 20% ±10% | 40 | 7.96 | 30 | 1.9 | 180 |
| AL-0204-□-6R8□-□ | 6.8 ± 20% ±10% | 40 | 7.96 | 28 | 2.0 | 175 |
| AL-0204-□-8R2□-□ | 8.2 ± 20% ±10% | 40 | 7.96 | 26 | 2.2 | 165 |
| AL-0204-□-100□-□ | 10.0 ± 20%±10% | 40 | 7.96 | 24 | 2.5 | 160 |
| AL-0204-□-120□-□ | 12.0 ± 20% ±10% | 40 | 2.52 | 22 | 2.5 | 150 |
| AL-0204-□-150□-□ | 15.0 ± 20% ±10% | 40 | 2.52 | 20 | 2.8 | 145 |
| AL-0204-□-180□-□ | 18.0 ± 20% ±10% | 40 | 2.52 | 18 | 3.1 | 140 |
| AL-0204-□-220□-□ | 22.0 ± 20% ±10% | 40 | 2.52 | 17 | 3.4 | 130 |
| AL-0204-□-270□-□ | 27.0 ± 20% ±10% | 40 | 2.52 | 16 | 4.3 | 80 |
| AL-0204-□-330□-□ | 33.0 ± 20% ±10% | 40 | 2.52 | 14 | 4.7 | 76 |
| AL-0204-□-390□-□ | 39.0 ± 20% ±10% | 40 | 2.52 | 13 | 5.2 | 74 |
| AL-0204-□-470□-□ | 47.0 ± 20% ±10% | 40 | 2.52 | 12 | 5.8 | 70 |
| AL-0204-□-560□-□ | 56.0 ± 20% ±10% | 40 | 2.52 | 11 | 6.4 | 68 |
| AL-0204-□-680□-□ | 68.0 ± 20% ±10% | 40 | 2.52 | 10 | 7.2 | 64 |
| AL-0204-□-820□-□ | 82.0 ± 20% ±10% | 40 | 2.52 | 9.5 | 11 | 46 |
| AL-0204-□-101□-□ | 100.0 ± 20% ±10% | 40 | 2.52 | 9.0 | 12 | 44 |
| AL-0204-□-121□-□ | 120.0 ± 20% ±10% | 40 | 0.796 | 8.0 | 13 | 42 |
| AL-0204-□-151□-□ | 150.0 ± 20% ±10% | 40 | 0.796 | 6.0 | 16 | 39 |
| AL-0204-□-181□-□ | 170.0 ± 20% ±10% | 40 | 0.796 | 5.5 | 18 | 37 |
| AL-0204-□-221□-□ | 220.0 ± 20% ±10% | 40 | 0.796 | 5.0 | 20 | 35 |

Tolerance: M = ± 20% . K = ± 10% . J = ± 5%

19, Woodlands Industrial Park E1 #03-07 Singapore 757719

Tel : 65 - 68921191 Fax : 65 - 67606760



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Electrical Characteristics:

| Part Number | Inductance μH | Q min | Test Freq. MHz | SRF MHz Min | DCR Ω Max | IDC mA Max |
|-------------------|-----------------------------|----------|-------------------|----------------|---------------------|---------------|
| AL-0307-□-R22M-□ | 0.22 \pm 20% | 45 | 25.2 | 150 | 0.20 | 400 |
| AL-0307-□-R27M-□ | 0.27 \pm 20% | 45 | 25.2 | 150 | 0.22 | 380 |
| AL-0307-□-R33M-□ | 0.33 \pm 20% | 45 | 25.2 | 150 | 0.24 | 370 |
| AL-0307-□-R39M-□ | 0.39 \pm 20% | 50 | 25.2 | 150 | 0.26 | 350 |
| AL-0307-□-R47M-□ | 0.47 \pm 20% | 45 | 25.2 | 150 | 0.28 | 330 |
| AL-0307-□-R56M-□ | 0.56 \pm 20% | 50 | 25.2 | 150 | 0.31 | 320 |
| AL-0307-□-R68M-□ | 0.68 \pm 20% | 50 | 25.2 | 150 | 0.34 | 310 |
| AL-0307-□-R82M-□ | 0.82 \pm 20% | 55 | 25.2 | 150 | 0.37 | 290 |
| AL-0307-□-1R0-□-□ | 1.0 \pm 20% \pm 10% | 60 | 25.2 | 150 | 0.40 | 270 |
| AL-0307-□-1R2-□-□ | 1.2 \pm 20% \pm 10% | 45 | 7.96 | 140 | 0.45 | 260 |
| AL-0307-□-1R5-□-□ | 1.5 \pm 20% \pm 10% | 50 | 7.96 | 131 | 0.50 | 250 |
| AL-0307-□-1R8-□-□ | 1.8 \pm 20% \pm 10% | 45 | 7.96 | 121 | 0.55 | 240 |
| AL-0307-□-2R2-□-□ | 2.2 \pm 20% \pm 10% | 40 | 7.96 | 100 | 0.60 | 230 |
| AL-0307-□-2R7-□-□ | 2.7 \pm 20% \pm 10% | 55 | 7.96 | 95 | 0.65 | 220 |
| AL-0307-□-3R3-□-□ | 3.3 \pm 20% \pm 10% | 40 | 7.96 | 90 | 0.75 | 210 |
| AL-0307-□-3R9-□-□ | 3.9 \pm 20% \pm 10% | 50 | 7.96 | 60 | 0.85 | 200 |
| AL-0307-□-4R7-□-□ | 4.7 \pm 20% \pm 10% | 55 | 7.96 | 55 | 0.90 | 190 |
| AL-0307-□-5R6-□-□ | 5.6 \pm 20% \pm 10% | 50 | 7.96 | 45 | 0.95 | 180 |
| AL-0307-□-6R8-□-□ | 6.8 \pm 20% \pm 10% | 45 | 7.96 | 30 | 1.10 | 175 |
| AL-0307-□-8R2-□-□ | 8.2 \pm 20% \pm 10% | 45 | 7.96 | 25 | 1.20 | 165 |
| AL-0307-□-100-□-□ | 10.0 \pm 20% \pm 10% | 45 | 7.96 | 21 | 1.30 | 160 |
| AL-0307-□-120-□-□ | 12.0 \pm 20% \pm 10% | 50 | 2.52 | 18 | 1.50 | 150 |
| AL-0307-□-150-□-□ | 15.0 \pm 20% \pm 10% | 50 | 2.52 | 16 | 1.70 | 145 |

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|-------------------|-----------------------------|----------|-------------------|----------------|---------------------|---------------|
| AL-0307-□-180-□-□ | 18.0 \pm 20% \pm 10% | 40 | 2.52 | 13 | 1.80 | 140 |
| AL-0307-□-220-□-□ | 22.0 \pm 20% \pm 10% | 45 | 2.52 | 10 | 2.00 | 130 |
| AL-0307-□-270-□-□ | 27.0 \pm 20% \pm 10% | 50 | 2.52 | 9 | 2.40 | 125 |
| AL-0307-□-330-□-□ | 33.0 \pm 20% \pm 10% | 50 | 2.52 | 8 | 2.70 | 120 |
| AL-0307-□-390-□-□ | 39.0 \pm 20% \pm 10% | 45 | 2.52 | 7 | 2.80 | 115 |
| AL-0307-□-470-□-□ | 47.0 \pm 20% \pm 10% | 50 | 2.52 | 7 | 3.00 | 110 |
| AL-0307-□-560-□-□ | 56.0 \pm 20% \pm 10% | 50 | 2.52 | 6.5 | 3.30 | 105 |
| AL-0307-□-680-□-□ | 68.0 \pm 20% \pm 10% | 45 | 2.52 | 6.0 | 3.80 | 100 |
| AL-0307-□-820-□-□ | 82.0 \pm 20% \pm 10% | 50 | 2.52 | 5.3 | 4.50 | 95 |
| AL-0307-□-101-□-□ | 100.0 \pm 20% \pm 10% | 45 | 2.52 | 4.8 | 5.00 | 90 |
| AL-0307-□-121-□-□ | 120.0 \pm 20% \pm 10% | 40 | 0.796 | 3.8 | 6.00 | 90 |
| AL-0307-□-151-□-□ | 150.0 \pm 20% \pm 10% | 40 | 0.796 | 3.5 | 7.00 | 85 |
| AL-0307-□-181-□-□ | 170.0 \pm 20% \pm 10% | 40 | 0.796 | 3.3 | 8.00 | 80 |
| AL-0307-□-221-□-□ | 220.0 \pm 20% \pm 10% | 40 | 0.796 | 3.0 | 9.00 | 75 |
| AL-0307-□-271-□-□ | 270.0 \pm 20% \pm 10% | 40 | 0.796 | 2.8 | 19.00 | 65 |
| AL-0307-□-331-□-□ | 330.0 \pm 20% \pm 10% | 40 | 0.796 | 2.6 | 20.00 | 60 |
| AL-0307-□-391-□-□ | 390.0 \pm 20% \pm 10% | 40 | 0.796 | 2.4 | 22.00 | 55 |
| AL-0307-□-471-□-□ | 470.0 \pm 20% \pm 10% | 40 | 0.796 | 2.3 | 24.00 | 55 |
| AL-0307-□-561-□-□ | 560.0 \pm 20% \pm 10% | 40 | 0.796 | 2.1 | 26.00 | 50 |
| AL-0307-□-681-□-□ | 680.0 \pm 20% \pm 10% | 40 | 0.796 | 1.95 | 28.00 | 45 |
| AL-0307-□-821-□-□ | 820.0 \pm 20% \pm 10% | 40 | 0.796 | 1.85 | 30.00 | 40 |
| AL-0307-□-102-□-□ | 1000.0 \pm 20% \pm 10% | 40 | 0.796 | 1.40 | 33.00 | 40 |

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|-------------------|-----------------------------|----------|-------------------|----------------|---------------------|---------------|
| AL-0410-□-R22M-□ | 0.22 \pm 20% | 50 | 25.2 | 300 | 0.12 | 1400 |
| AL-0410-□-R27M-□ | 0.27 \pm 20% | 50 | 25.2 | 260 | 0.13 | 1320 |
| AL-0410-□-R33M-□ | 0.33 \pm 20% | 55 | 25.2 | 250 | 0.14 | 1280 |
| AL-0410-□-R39M-□ | 0.39 \pm 20% | 55 | 25.2 | 230 | 0.15 | 1200 |
| AL-0410-□-R47M-□ | 0.47 \pm 20% | 50 | 25.2 | 220 | 0.17 | 1150 |
| AL-0410-□-R56M-□ | 0.56 \pm 20% | 50 | 25.2 | 200 | 0.18 | 1100 |
| AL-0410-□-R68M-□ | 0.68 \pm 20% | 55 | 25.2 | 190 | 0.20 | 1030 |
| AL-0410-□-R82M-□ | 0.82 \pm 20% | 55 | 25.2 | 172 | 0.21 | 980 |
| AL-0410-□-1R0-□-□ | 1.0 \pm 20% \pm 10% | 45 | 25.2 | 157 | 0.21 | 920 |
| AL-0410-□-1R2-□-□ | 1.2 \pm 20% \pm 10% | 50 | 7.96 | 144 | 0.22 | 880 |
| AL-0410-□-1R5-□-□ | 1.5 \pm 20% \pm 10% | 50 | 7.96 | 131 | 0.23 | 830 |
| AL-0410-□-1R8-□-□ | 1.8 \pm 20% \pm 10% | 55 | 7.96 | 121 | 0.28 | 790 |
| AL-0410-□-2R2-□-□ | 2.2 \pm 20% \pm 10% | 55 | 7.96 | 110 | 0.28 | 750 |
| AL-0410-□-2R7-□-□ | 2.7 \pm 20% \pm 10% | 60 | 7.96 | 100 | 0.30 | 720 |
| AL-0410-□-3R3-□-□ | 3.3 \pm 20% \pm 10% | 65 | 7.96 | 94 | 0.34 | 670 |
| AL-0410-□-3R9-□-□ | 3.9 \pm 20% \pm 10% | 65 | 7.96 | 65 | 0.37 | 640 |
| AL-0410-□-4R7-□-□ | 4.7 \pm 20% \pm 10% | 70 | 7.96 | 56 | 0.39 | 620 |
| AL-0410-□-5R6-□-□ | 5.6 \pm 20% \pm 10% | 70 | 7.96 | 50 | 0.43 | 590 |
| AL-0410-□-6R8-□-□ | 6.8 \pm 20% \pm 10% | 75 | 7.96 | 40 | 0.49 | 550 |
| AL-0410-□-8R2-□-□ | 8.2 \pm 20% \pm 10% | 80 | 7.96 | 35 | 0.55 | 530 |
| AL-0410-□-100-□-□ | 10.0 \pm 20% \pm 10% | 65 | 7.96 | 30 | 0.63 | 500 |
| AL-0410-□-120-□-□ | 12.0 \pm 20% \pm 10% | 55 | 2.52 | 25 | 0.65 | 480 |
| AL-0410-□-150-□-□ | 15.0 \pm 20% \pm 10% | 55 | 2.52 | 20 | 0.81 | 460 |

Tolerance: M = \pm 20% , K = \pm 10% , J = \pm 5%

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|-------------------|-----------------------------|----------|-------------------|----------------|---------------------|---------------|
| AL-0410-□-180-□-□ | 18.0 \pm 20% \pm 10% | 50 | 2.52 | 14 | 0.82 | 430 |
| AL-0410-□-220-□-□ | 22.0 \pm 20% \pm 10% | 50 | 2.52 | 9 | 0.95 | 410 |
| AL-0410-□-270-□-□ | 27.0 \pm 20% \pm 10% | 45 | 2.52 | 7 | 1.05 | 390 |
| AL-0410-□-330-□-□ | 33.0 \pm 20% \pm 10% | 45 | 2.52 | 6 | 1.05 | 370 |
| AL-0410-□-390-□-□ | 39.0 \pm 20% \pm 10% | 45 | 2.52 | 6 | 1.10 | 350 |
| AL-0410-□-470-□-□ | 47.0 \pm 20% \pm 10% | 40 | 2.52 | 6 | 1.31 | 340 |
| AL-0410-□-560-□-□ | 56.0 \pm 20% \pm 10% | 40 | 2.52 | 5.5 | 1.38 | 320 |
| AL-0410-□-680-□-□ | 68.0 \pm 20% \pm 10% | 40 | 2.52 | 5.0 | 1.62 | 305 |
| AL-0410-□-820-□-□ | 82.0 \pm 20% \pm 10% | 35 | 2.52 | 5.0 | 1.71 | 290 |
| AL-0410-□-101-□-□ | 100.0 \pm 20% \pm 10% | 30 | 2.52 | 4.5 | 3.10 | 275 |
| AL-0410-□-121-□-□ | 120.0 \pm 20% \pm 10% | 55 | 0.796 | 3.5 | 3.10 | 185 |
| AL-0410-□-151-□-□ | 150.0 \pm 20% \pm 10% | 55 | 0.796 | 3.0 | 3.45 | 175 |
| AL-0410-□-181-□-□ | 170.0 \pm 20% \pm 10% | 55 | 0.796 | 2.8 | 4.10 | 165 |
| AL-0410-□-221-□-□ | 220.0 \pm 20% \pm 10% | 60 | 0.796 | 2.5 | 4.54 | 155 |
| AL-0410-□-271-□-□ | 270.0 \pm 20% \pm 10% | 65 | 0.796 | 2.3 | 5.15 | 145 |
| AL-0410-□-331-□-□ | 330.0 \pm 20% \pm 10% | 60 | 0.796 | 2.0 | 6.40 | 137 |
| AL-0410-□-391-□-□ | 390.0 \pm 20% \pm 10% | 65 | 0.796 | 2.0 | 7.15 | 133 |
| AL-0410-□-471-□-□ | 470.0 \pm 20% \pm 10% | 65 | 0.796 | 1.9 | 7.70 | 126 |
| AL-0410-□-561-□-□ | 560.0 \pm 20% \pm 10% | 65 | 0.796 | 1.8 | 8.50 | 120 |
| AL-0410-□-681-□-□ | 680.0 \pm 20% \pm 10% | 65 | 0.796 | 1.5 | 9.00 | 113 |
| AL-0410-□-821-□-□ | 820.0 \pm 20% \pm 10% | 65 | 0.796 | 1.2 | 10.5 | 105 |
| AL-0410-□-102-□-□ | 1000.0 \pm 20% \pm 10% | 65 | 0.796 | 1.0 | 14.0 | 100 |

Tolerance: M = \pm 20% , K = \pm 10% , J = \pm 5%