

MULTILAYER FERRITE CHIP INDUCTORS



AIML-0805, AIML-1206 SERIES

FEATURES:

- Ferrite base
- High SRF and Q

OPTIONS:

- Tape & Reel is standard
- Other tolerance available

APPLICATIONS:

- Wireless application
- Digital equipment

STANDARD SPECIFICATIONS:

| Part Number AIML-0805 | L (μH) | Q Min | L.Q Test Freq (MHz) | SRF Min (MHz) | R _{DC} Max (Ω) | I _{RATE} Max (mA) |
|--------------------------|--------|----------|---------------------------|---------------------|-------------------------------|----------------------------------|
| R047M | 0.047 | 15 | 50 | 320 | 0.20 | 300 |
| R068M | 0.068 | 15 | 50 | 280 | 0.20 | 300 |
| R082M | 0.082 | 15 | 50 | 255 | 0.20 | 300 |
| R10K | 0.10 | 20 | 25 | 235 | 0.30 | 250 |
| R12K | 0.12 | 20 | 25 | 220 | 0.30 | 250 |
| R15K | 0.15 | 20 | 25 | 200 | 0.40 | 250 |
| R18K | 0.18 | 20 | 25 | 185 | 0.40 | 250 |
| R22K | 0.22 | 20 | 25 | 170 | 0.50 | 250 |
| R27K | 0.27 | 20 | 25 | 150 | 0.50 | 250 |
| R33K | 0.33 | 20 | 25 | 145 | 0.55 | 250 |
| R39K | 0.39 | 25 | 25 | 135 | 0.65 | 200 |
| R47K | 0.47 | 25 | 25 | 125 | 0.65 | 200 |
| R56K | 0.56 | 25 | 25 | 115 | 0.75 | 150 |
| R68K | 0.68 | 25 | 25 | 105 | 0.80 | 150 |
| R82K | 0.82 | 25 | 25 | 100 | 1.00 | 150 |
| 1R0K | 1.0 | 45 | 10 | 75 | 0.40 | 50 |
| 1R2K | 1.2 | 45 | 10 | 65 | 0.50 | 50 |
| 1R5K | 1.5 | 45 | 10 | 60 | 0.50 | 50 |
| 1R8K | 1.8 | 45 | 10 | 55 | 0.60 | 50 |
| 2R2K | 2.2 | 45 | 10 | 50 | 0.65 | 30 |
| 2R7K | 2.7 | 45 | 10 | 45 | 0.75 | 30 |
| 3R3K | 3.3 | 45 | 10 | 41 | 0.80 | 30 |
| 3R9K | 3.9 | 45 | 10 | 38 | 0.90 | 30 |
| 4R7K | 4.7 | 45 | 10 | 35 | 1.00 | 30 |
| 5R6K | 5.6 | 50 | 4 | 32 | 0.90 | 15 |
| 6R8K | 6.8 | 50 | 4 | 29 | 1.00 | 15 |
| 8R2K | 8.2 | 50 | 4 | 26 | 1.10 | 15 |
| 100K | 10 | 50 | 2 | 24 | 1.15 | 15 |
| 120K | 12 | 50 | 2 | 22 | 1.25 | 15 |
| 150K | 15 | 30 | 1 | 19 | 0.80 | 5 |
| 180K | 18 | 30 | 1 | 18 | 0.90 | 5 |
| 220K | 22 | 30 | 1 | 16 | 1.10 | 5 |
| 270K | 27 | 30 | 1 | 14 | 1.15 | 5 |
| 330K | 33 | 30 | 1 | 13 | 1.25 | 5 |
| 390K | 39 | 35 | 2 | 8.0 | 2.90 | 4 |

| Part Number AIML-1206 | L (μH) | Q Min | L.Q Test Freq (MHz) | SRF Min (MHz) | R _{DC} Max (Ω) | I _{RATE} Max (mA) |
|--------------------------|--------|----------|---------------------------|---------------------|-------------------------------|----------------------------------|
| R047M | 0.047 | 20 | 50 | 320 | 0.15 | 300 |
| R068M | 0.068 | 20 | 50 | 280 | 0.25 | 300 |
| R10K | 0.10 | 20 | 50 | 235 | 0.25 | 250 |
| R12K | 0.12 | 20 | 25 | 220 | 0.30 | 250 |
| R15K | 0.15 | 20 | 25 | 200 | 0.30 | 250 |
| R18K | 0.18 | 20 | 25 | 185 | 0.40 | 250 |
| R22K | 0.22 | 20 | 25 | 170 | 0.40 | 250 |
| R27K | 0.27 | 20 | 25 | 150 | 0.50 | 250 |
| R33K | 0.33 | 20 | 25 | 145 | 0.60 | 250 |
| R39K | 0.39 | 25 | 25 | 135 | 0.50 | 200 |
| R47K | 0.47 | 25 | 25 | 125 | 0.60 | 200 |
| R56K | 0.56 | 25 | 25 | 115 | 0.70 | 150 |
| R68K | 0.68 | 25 | 25 | 105 | 0.80 | 150 |
| R82K | 0.82 | 25 | 25 | 100 | 0.90 | 150 |
| 1R0K | 1.0 | 45 | 10 | 75 | 0.40 | 100 |
| 1R2K | 1.2 | 45 | 10 | 65 | 0.50 | 100 |
| 1R5K | 1.5 | 45 | 10 | 60 | 0.50 | 50 |
| 1R8K | 1.8 | 45 | 10 | 55 | 0.50 | 50 |
| 2R2K | 2.2 | 45 | 10 | 50 | 0.60 | 50 |
| 2R7K | 2.7 | 45 | 10 | 45 | 0.60 | 50 |
| 3R3K | 3.3 | 45 | 10 | 41 | 0.70 | 50 |
| 3R9K | 3.9 | 45 | 10 | 38 | 0.80 | 50 |
| 4R7K | 4.7 | 45 | 10 | 35 | 0.90 | 50 |
| 5R6K | 5.6 | 40 | 4 | 32 | 0.70 | 25 |
| 6R8K | 6.8 | 40 | 4 | 29 | 0.80 | 25 |
| 8R2K | 8.2 | 40 | 4 | 26 | 0.90 | 25 |
| 100K | 10 | 50 | 2 | 24 | 1.00 | 25 |
| 120K | 12 | 50 | 2 | 22 | 1.05 | 15 |
| 150K | 15 | 35 | 1 | 19 | 0.70 | 5 |
| 180K | 18 | 35 | 1 | 18 | 0.70 | 5 |
| 220K | 22 | 35 | 1 | 16 | 0.90 | 5 |
| 270K | 27 | 35 | 1 | 14 | 0.90 | 5 |
| 330K | 33 | 35 | 1 | 13 | 1.05 | 5 |
| 390K | 39 | 40 | 2 | 11 | 3.00 | 5 |
| 470K | 47 | 40 | 2 | 10 | 3.40 | 5 |
| 560K | 56 | 40 | 2 | 9.5 | 3.80 | 4 |
| 680K | 68 | 40 | 1 | 9.5 | 3.00 | 4 |
| 820K | 82 | 40 | 1 | 9.0 | 3.40 | 4 |
| 101K | 100 | 40 | 1 | 8.0 | 3.80 | 4 |
| 121K | 120 | 30 | 0.4 | 6.0 | 3.00 | 2 |
| 151K | 150 | 30 | 0.4 | 5.5 | 3.40 | 2 |
| 181K | 180 | 30 | 0.4 | 5.0 | 3.80 | 2 |
| 221K | 220 | 30 | 0.4 | 4.5 | 4.20 | 2 |

PHYSICAL CHARACTERISTICS:



- Ordering Code: AIML-XXXX(Size)-RXXX(Value)-(J)(K)(M)-T(T&R)
- Tolerance: J=±5%, K=±10%, M=±20%
- Letter suffix indicates standard tolerance
- See Source Control Drawing (SCD) for detail E&M performance
- Operating Temperature: -40°C to +125°C

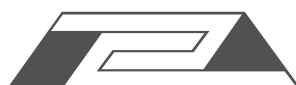
Note: All specifications subject to change without notice.

| | AIML-0805 | AIML-1206 |
|------------------|-----------------------------|----------------------------|
| Length (L) | 0.079±0.008 (2,00±0,20) | 0.125±0.008 (3,20±0,20) |
| Width (W) | 0.049±0.008 (1,25±0,20) | 0.063±0.008 (1,60±0,20) |
| Thickness (T) | 0.033±0.008 (0,085±0,20) | 0.024±0.008 (0,80±0,20) |
| Termination (BW) | 0.02±0.012 (0,50±0,30) | 0.020±0.012 (0,50±0,30) |

TAPE & REEL: Tape and reel 4,000pcs/reel

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