

# THROUGH-HOLE MOLDED INDUCTORS

## AIAM-01 SERIES

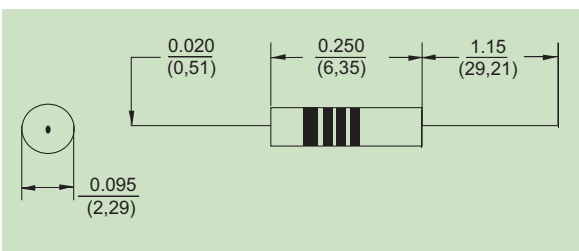


### STANDARD SPECIFICATIONS:

| Part Number   | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | I <sub>DC</sub> (mA) (MAX) |
|---------------|--------|---------|--------------|-----------------|-------------|----------------------------|
| AIAM-01-R022K | .022   | 50      | 50           | 900             | .025        | 2400                       |
| AIAM-01-R027K | .027   | 40      | 25           | 875             | .033        | 2200                       |
| AIAM-01-R033K | .033   | 40      | 25           | 850             | .035        | 2000                       |
| AIAM-01-R039K | .039   | 40      | 25           | 825             | .04         | 1900                       |
| AIAM-01-R047K | .047   | 40      | 25           | 800             | .045        | 1800                       |
| AIAM-01-R056K | .056   | 40      | 25           | 775             | .05         | 1700                       |
| AIAM-01-R068K | .068   | 40      | 25           | 750             | .06         | 1500                       |
| AIAM-01-R082K | .082   | 40      | 25           | 725             | .07         | 1400                       |
| AIAM-01-R10K  | .10    | 40      | 25           | 680             | .08         | 1350                       |
| AIAM-01-R12K  | .12    | 40      | 25           | 640             | .09         | 1270                       |
| AIAM-01-R15K  | .15    | 38      | 25           | 600             | .10         | 1200                       |
| AIAM-01-R18K  | .18    | 35      | 25           | 550             | .12         | 1105                       |
| AIAM-01-R22K  | .22    | 33      | 25           | 510             | .14         | 1025                       |
| AIAM-01-R27K  | .27    | 33      | 25           | 430             | .16         | 960                        |
| AIAM-01-R33K  | .33    | 30      | 25           | 410             | .22         | 815                        |
| AIAM-01-R39K  | .39    | 30      | 25           | 365             | .30         | 700                        |
| AIAM-01-R47K  | .47    | 30      | 25           | 330             | .35         | 650                        |
| AIAM-01-R56K  | .56    | 30      | 25           | 300             | .50         | 545                        |
| AIAM-01-R68K  | .68    | 28      | 25           | 275             | .60         | 495                        |
| AIAM-01-R82K  | .82    | 28      | 25           | 250             | .85         | 415                        |
| AIAM-01-1R0K  | 1.0    | 25      | 25           | 230             | 1.0         | 385                        |
| AIAM-01-1R2K  | 1.2    | 25      | 7.9          | 150             | .18         | 590                        |
| AIAM-01-1R5K  | 1.5    | 28      | 7.9          | 140             | .22         | 535                        |
| AIAM-01-1R8K  | 1.8    | 30      | 7.9          | 125             | .30         | 455                        |
| AIAM-01-2R2K  | 2.2    | 30      | 7.9          | 115             | .40         | 395                        |
| AIAM-01-2R7K  | 2.7    | 37      | 7.9          | 100             | .55         | 355                        |
| AIAM-01-3R3K  | 3.3    | 45      | 7.9          | 90              | .85         | 270                        |
| AIAM-01-3R9K  | 3.9    | 45      | 7.9          | 80              | 1.0         | 250                        |
| AIAM-01-4R7K  | 4.7    | 45      | 7.9          | 75              | 1.2         | 230                        |

| Part Number  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | I <sub>DC</sub> (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------------------|
| AIAM-01-5R6K | 5.6    | 50      | 7.9          | 65              | 1.8         | 185                        |
| AIAM-01-6R8K | 6.8    | 50      | 7.9          | 60              | 2.0         | 175                        |
| AIAM-01-8R2K | 8.2    | 55      | 7.9          | 55              | 2.7         | 155                        |
| AIAM-01-100K | 10     | 55      | 7.9          | 50              | 3.7         | 130                        |
| AIAM-01-120K | 12     | 45      | 2.5          | 40              | 2.7         | 155                        |
| AIAM-01-150K | 15     | 40      | 2.5          | 35              | 2.8         | 150                        |
| AIAM-01-180K | 18     | 50      | 2.5          | 30              | 3.1         | 145                        |
| AIAM-01-220K | 22     | 50      | 2.5          | 25              | 3.3         | 140                        |
| AIAM-01-270K | 27     | 50      | 2.5          | 20              | 3.5         | 135                        |
| AIAM-01-330K | 33     | 45      | 2.5          | 24              | 3.4         | 130                        |
| AIAM-01-390K | 39     | 45      | 2.5          | 22              | 3.6         | 125                        |
| AIAM-01-470K | 47     | 45      | 2.5          | 20              | 4.5         | 110                        |
| AIAM-01-560K | 56     | 45      | 2.5          | 18              | 5.7         | 100                        |
| AIAM-01-680K | 68     | 50      | 2.5          | 15              | 6.7         | 92                         |
| AIAM-01-820K | 82     | 50      | 2.5          | 14              | 7.3         | 88                         |
| AIAM-01-101K | 100    | 50      | 2.5          | 13              | 8.0         | 84                         |
| AIAM-01-121K | 120    | 30      | .79          | 12              | 13          | 66                         |
| AIAM-01-151K | 150    | 30      | .79          | 11              | 15          | 61                         |
| AIAM-01-181K | 180    | 30      | .79          | 10              | 17          | 57                         |
| AIAM-01-221K | 220    | 30      | .79          | 9.0             | 21          | 52                         |
| AIAM-01-271K | 270    | 30      | .79          | 8.0             | 25          | 47                         |
| AIAM-01-331K | 330    | 30      | .79          | 7.0             | 28          | 45                         |
| AIAM-01-391K | 390    | 30      | .79          | 6.5             | 35          | 40                         |
| AIAM-01-471K | 470    | 30      | .79          | 6.0             | 42          | 36                         |
| AIAM-01-561K | 560    | 30      | .79          | 5.0             | 46          | 35                         |
| AIAM-01-681K | 680    | 30      | .79          | 4.0             | 60          | 30                         |
| AIAM-01-821K | 820    | 30      | .79          | 3.8             | 65          | 29                         |
| AIAM-01-102K | 1000   | 30      | .79          | 3.4             | 72          | 28                         |

### PHYSICAL CHARACTERISTICS:



### TECHNICAL INFORMATION:

- Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
- Letter suffix indicates standard tolerance
- Current rating at which inductance (L) drops 10%
- Operating temperature -55°C to +105°C
- Storage temperature -55°C to +85°C
- Dimensions: inches / mm; see spec sheet for tolerance limits
- Marking per EIA 4-band color code

Note: All specifications subject to change without notice.

# THROUGH-HOLE MOLDED INDUCTORS

## AIAM-02 SERIES

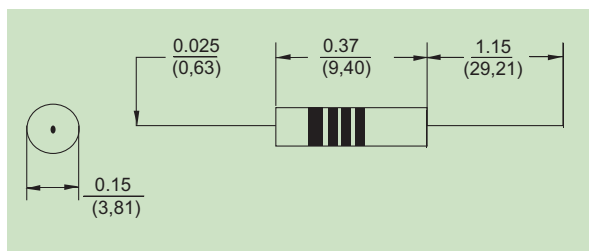


### STANDARD SPECIFICATIONS:

| Part Number  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | I <sub>DC</sub> (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------------------|
| AIAM-02-R15M | 0.15   | 50      | 25           | 525             | 0.03        | 2740                       |
| AIAM-02-R22M | 0.22   | 50      | 25           | 450             | .055        | 2080                       |
| AIAM-02-R33M | 0.33   | 45      | 25           | 360             | 0.09        | 1580                       |
| AIAM-02-R47M | 0.47   | 45      | 25           | 310             | 0.12        | 1370                       |
| AIAM-02-R56K | 0.56   | 50      | 25           | 280             | .135        | 1290                       |
| AIAM-02-R68K | 0.68   | 50      | 25           | 250             | 0.15        | 1220                       |
| AIAM-02-R82K | 0.82   | 50      | 25           | 250             | 0.22        | 1020                       |
| AIAM-02-1R0K | 1.0    | 50      | 25           | 200             | 0.29        | 880                        |
| AIAM-02-1R2K | 1.2    | 33      | 7.9          | 180             | 0.42        | 730                        |
| AIAM-02-1R5K | 1.5    | 33      | 7.9          | 160             | 0.23        | 670                        |
| AIAM-02-1R8K | 1.8    | 33      | 7.9          | 150             | 0.65        | 590                        |
| AIAM-02-2R2K | 2.2    | 33      | 7.9          | 135             | 0.95        | 485                        |
| AIAM-02-2R7K | 2.7    | 33      | 7.9          | 120             | 1.20        | 430                        |
| AIAM-02-3R3K | 3.3    | 33      | 7.9          | 110             | 2.00        | 335                        |
| AIAM-02-3R9K | 3.9    | 33      | 7.9          | 100             | 2.30        | 310                        |
| AIAM-02-4R7K | 4.7    | 33      | 7.9          | 90              | 2.60        | 294                        |
| AIAM-02-5R6K | 5.6    | 45      | 7.9          | 55              | 0.32        | 565                        |
| AIAM-02-6R8K | 6.8    | 50      | 7.9          | 55              | 0.50        | 450                        |
| AIAM-02-8R2K | 8.2    | 50      | 7.9          | 50              | 0.60        | 410                        |
| AIAM-02-100K | 10     | 55      | 7.9          | 45              | 0.90        | 335                        |
| AIAM-02-120K | 12     | 65      | 2.5          | 42              | 1.10        | 3.5                        |
| AIAM-02-150K | 15     | 65      | 2.5          | 40              | 1.40        | 271                        |
| AIAM-02-180K | 18     | 75      | 2.5          | 34              | 2.25        | 213                        |
| AIAM-02-220K | 22     | 75      | 2.5          | 30              | 2.50        | 202                        |
| AIAM-02-270K | 27     | 60      | 2.5          | 25              | 2.60        | 202                        |
| AIAM-02-330K | 33     | 65      | 2.5          | 19              | 3.00        | 185                        |
| AIAM-02-360J | 36     | 60      | 2.5          | 15.5            | 2.50        | 180                        |
| AIAM-02-390J | 39     | 60      | 2.5          | 14.5            | 2.60        | 176                        |
| AIAM-02-430J | 43     | 60      | 2.5          | 13.7            | 2.70        | 172                        |
| AIAM-02-470J | 47     | 55      | 2.5          | 13              | 2.75        | 170                        |
| AIAM-02-510J | 51     | 55      | 2.5          | 12.7            | 2.85        | 167                        |

| Part Number  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | I <sub>DC</sub> (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------------------|
| AIAM-02-560J | 56     | 55      | 2.5          | 12              | 3.00        | 164                        |
| AIAM-02-620J | 62     | 55      | 2.5          | 11.5            | 3.15        | 160                        |
| AIAM-02-680J | 68     | 55      | 2.5          | 11              | 3.30        | 156                        |
| AIAM-02-750J | 75     | 55      | 2.5          | 10.5            | 3.70        | 147                        |
| AIAM-02-820J | 82     | 50      | 2.5          | 10.3            | 3.90        | 143                        |
| AIAM-02-910J | 91     | 50      | 2.5          | 10              | 4.30        | 136                        |
| AIAM-02-101J | 100    | 60      | 2.5          | 9.5             | 4.50        | 133                        |
| AIAM-02-111J | 110    | 65      | 0.79         | 8.9             | 4.90        | 128                        |
| AIAM-02-121J | 120    | 65      | 0.79         | 8.7             | 5.20        | 124                        |
| AIAM-02-131J | 130    | 65      | 0.79         | 8.5             | 5.45        | 121                        |
| AIAM-02-151J | 150    | 65      | 0.79         | 8.0             | 6.05        | 114                        |
| AIAM-02-161J | 160    | 65      | 0.79         | 7.5             | 6.40        | 111                        |
| AIAM-02-181J | 180    | 65      | 0.79         | 7.0             | 6.75        | 108                        |
| AIAM-02-201J | 200    | 65      | 0.79         | 6.5             | 7.10        | 106                        |
| AIAM-02-221J | 220    | 65      | 0.79         | 6.2             | 7.45        | 103                        |
| AIAM-02-241J | 240    | 65      | 0.79         | 5.9             | 7.80        | 101                        |
| AIAM-02-271J | 270    | 65      | 0.79         | 5.7             | 11.0        | 129                        |
| AIAM-02-301J | 300    | 65      | 0.79         | 5.4             | 11.5        | 125                        |
| AIAM-02-331J | 330    | 65      | 0.79         | 5.1             | 12.0        | 123                        |
| AIAM-02-361J | 360    | 65      | 0.79         | 4.8             | 15.5        | 108                        |
| AIAM-02-391J | 390    | 65      | 0.79         | 4.5             | 16.3        | 105                        |
| AIAM-02-431J | 430    | 65      | 0.79         | 4.2             | 17.1        | 102                        |
| AIAM-02-471J | 470    | 65      | 0.79         | 3.9             | 17.9        | 100                        |
| AIAM-02-511J | 510    | 65      | 0.79         | 3.7             | 18.8        | 98                         |
| AIAM-02-561J | 560    | 65      | 0.79         | 3.5             | 24.7        | 85                         |
| AIAM-02-621J | 620    | 65      | 0.79         | 3.3             | 25.9        | 83                         |
| AIAM-02-681J | 680    | 55      | 0.79         | 3.1             | 27.2        | 81                         |
| AIAM-02-751J | 750    | 55      | 0.79         | 2.9             | 28.6        | 79                         |
| AIAM-02-821J | 820    | 55      | 0.79         | 2.7             | 30.0        | 77                         |
| AIAM-02-911J | 910    | 55      | 0.79         | 2.5             | 31.5        | 76                         |
| AIAM-02-102J | 1000   | 55      | 0.79         | 2.3             | 33.1        | 74                         |

### PHYSICAL CHARACTERISTICS:



### TECHNICAL INFORMATION:

- Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
- Letter suffix indicates standard tolerance
- Current rating at which inductance (L) drops 10%
- Operating temperature -55°C to +85°C
- Storage temperature -55°C to +125°C
- Dimensions: inches / mm; see spec sheet for tolerance limits
- Marking per EIA 4-band color code

Note: All specifications subject to change without notice.

# THROUGH-HOLE MOLDED INDUCTORS

## AIAM-03 SERIES

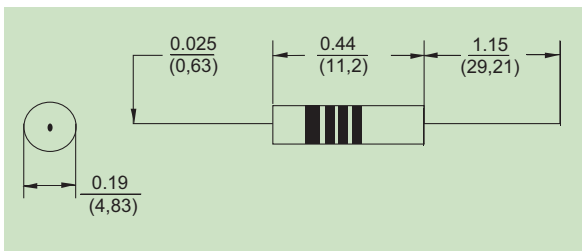


### STANDARD SPECIFICATIONS:

| Part Number  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | I <sub>DC</sub> (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------------------|
| AIAM-03-R15M | 0.15   | 50      | 25           | 510             | .300        | 3050                       |
| AIAM-03-R22M | 0.22   | 50      | 25           | 415             | .350        | 2800                       |
| AIAM-03-R33M | 0.33   | 50      | 25           | 305             | .650        | 2000                       |
| AIAM-03-R47M | 0.47   | 50      | 25           | 300             | .850        | 1700                       |
| AIAM-03-R56K | 0.56   | 50      | 25           | 270             | .125        | 1450                       |
| AIAM-03-R68K | 0.68   | 45      | 25           | 250             | .150        | 1300                       |
| AIAM-03-R82K | 0.82   | 40      | 25           | 210             | .205        | 1100                       |
| AIAM-03-1R0K | 1.0    | 40      | 25           | 200             | .290        | 930                        |
| AIAM-03-1R2K | 1.2    | 30      | 7.9          | 180             | .400        | 785                        |
| AIAM-03-1R5K | 1.5    | 30      | 7.9          | 170             | .485        | 700                        |
| AIAM-03-1R8K | 1.8    | 30      | 7.9          | 150             | .740        | 550                        |
| AIAM-03-2R2K | 2.2    | 30      | 7.9          | 140             | .970        | 505                        |
| AIAM-03-2R7K | 2.7    | 30      | 7.9          | 120             | 1.20        | 460                        |
| AIAM-03-3R3K | 3.3    | 30      | 7.9          | 70              | 1.40        | 990                        |
| AIAM-03-3R9K | 3.9    | 30      | 7.9          | 65              | .155        | 870                        |
| AIAM-03-4R7K | 4.7    | 30      | 7.9          | 60              | .210        | 745                        |
| AIAM-03-5R6K | 5.6    | 30      | 7.9          | 50              | .280        | 645                        |
| AIAM-03-6R8K | 6.8    | 30      | 7.9          | 50              | 3.75        | 560                        |
| AIAM-03-8R2K | 8.2    | 60      | 2.5          | 48              | .440        | 540                        |
| AIAM-03-100K | 10     | 30      | 7.9          | 42              | .605        | 440                        |
| AIAM-03-120K | 12     | 50      | 2.5          | 36              | 1.05        | 370                        |
| AIAM-03-150K | 15     | 60      | 2.5          | 30              | 1.20        | 310                        |
| AIAM-03-180K | 18     | 60      | 2.5          | 30              | 1.95        | 255                        |
| AIAM-03-220K | 22     | 60      | 2.5          | 24              | 2.20        | 240                        |
| AIAM-03-270K | 27     | 65      | 2.5          | 22              | 2.75        | 205                        |
| AIAM-03-330K | 33     | 65      | 2.5          | 18              | 2.30        | 300                        |

| Part Number  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | I <sub>DC</sub> (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------------------|
| AIAM-03-390J | 39     | 55      | 2.5          | 165             | 2.50        | 285                        |
| AIAM-03-470J | 47     | 55      | 2.5          | 14              | 3.40        | 245                        |
| AIAM-03-560J | 56     | 55      | 2.5          | 14              | 4.10        | 225                        |
| AIAM-03-680J | 68     | 45      | 2.5          | 11              | 4.20        | 220                        |
| AIAM-02-820J | 82     | 50      | 2.5          | 9.3             | 4.40        | 215                        |
| AIAM-02-101J | 100    | 45      | 0.79         | 8.5             | 4.90        | 205                        |
| AIAM-02-121J | 120    | 60      | 0.79         | 7.3             | 5.40        | 195                        |
| AIAM-02-151J | 150    | 60      | 0.79         | 6.2             | 6.20        | 180                        |
| AIAM-02-181J | 180    | 60      | 0.79         | 5.7             | 7.10        | 170                        |
| AIAM-02-221J | 220    | 60      | 0.79         | 5.2             | 7.90        | 160                        |
| AIAM-02-271J | 270    | 60      | 0.79         | 5.6             | 8.20        | 110                        |
| AIAM-02-301J | 300    | 65      | 0.79         | 5.3             | 8.70        | 107                        |
| AIAM-02-331J | 330    | 65      | 0.79         | 5.0             | 9.10        | 105                        |
| AIAM-02-361J | 360    | 65      | 0.79         | 4.7             | 9.60        | 102                        |
| AIAM-02-391J | 390    | 65      | 0.79         | 4.5             | 10.0        | 100                        |
| AIAM-02-431J | 430    | 65      | 0.79         | 4.3             | 10.6        | 97                         |
| AIAM-02-471J | 470    | 65      | 0.79         | 4.0             | 11.0        | 95                         |
| AIAM-02-511J | 510    | 65      | 0.79         | 3.8             | 11.6        | 93                         |
| AIAM-02-561J | 560    | 65      | 0.79         | 3.8             | 12.3        | 91                         |
| AIAM-02-621J | 620    | 60      | 0.79         | 3.5             | 13.0        | 88                         |
| AIAM-02-681J | 680    | 60      | 0.79         | 3.4             | 13.7        | 85                         |
| AIAM-02-751J | 750    | 60      | 0.79         | 3.3             | 14.4        | 83                         |
| AIAM-02-821J | 820    | 60      | 0.79         | 3.1             | 15.1        | 81                         |
| AIAM-02-911J | 910    | 60      | 0.79         | 2.9             | 15.8        | 79                         |
| AIAM-02-102J | 1000   | 60      | 0.79         | 2.8             | 16.5        | 78                         |

### PHYSICAL CHARACTERISTICS:



### TECHNICAL INFORMATION:

- Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
- Letter suffix indicates standard tolerance
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- Operating temperature -55°C to +85°C
- Storage temperature -55°C to +125°C
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- Marking per EIA 4-band color code

Note: All specifications subject to change without notice.