

# THROUGH-HOLE MOLDED SHIELDED INDUCTORS

## AIAS-01 SERIES

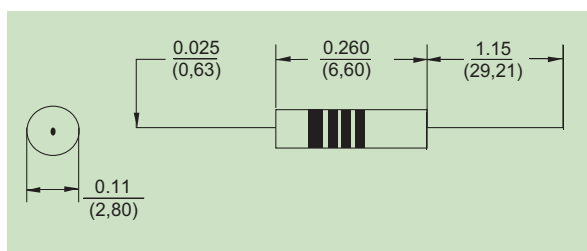


### STANDARD SPECIFICATIONS:

| Part Number  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | Idc (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------|
| AIAS-01-R10K | 0.10   | 39      | 25           | 400             | 0.071       | 1580           |
| AIAS-01-R12K | 0.12   | 36      | 25           | 400             | 0.087       | 1360           |
| AIAS-01-R15K | 0.15   | 35      | 25           | 400             | 0.109       | 1280           |
| AIAS-01-R18K | 0.18   | 35      | 25           | 400             | 0.145       | 1110           |
| AIAS-01-R22K | 0.22   | 35      | 25           | 400             | 0.165       | 1040           |
| AIAS-01-R27K | 0.27   | 33      | 25           | 400             | 0.192       | 965            |
| AIAS-01-R33K | 0.33   | 33      | 25           | 370             | 0.228       | 885            |
| AIAS-01-R39K | 0.39   | 32      | 25           | 348             | 0.259       | 830            |
| AIAS-01-R47K | 0.47   | 33      | 25           | 312             | 0.348       | 717            |
| AIAS-01-R56K | 0.56   | 30      | 25           | 285             | 0.417       | 655            |
| AIAS-01-R68K | 0.68   | 30      | 25           | 262             | 0.580       | 555            |
| AIAS-01-R82K | 0.82   | 33      | 25           | 188             | 0.132       | 1160           |
| AIAS-01-1R0K | 1.0    | 35      | 25           | 166             | 0.169       | 1330           |
| AIAS-01-1R2K | 1.2    | 29      | 7.9          | 149             | 0.184       | 985            |
| AIAS-01-1R5K | 1.5    | 29      | 7.9          | 136             | 0.260       | 825            |
| AIAS-01-1R8K | 1.8    | 29      | 7.9          | 118             | 0.360       | 705            |
| AIAS-01-2R2K | 2.2    | 28      | 7.9          | 110             | 0.410       | 664            |
| AIAS-01-2R7K | 2.7    | 32      | 7.9          | 94              | 0.550       | 577            |
| AIAS-01-3R3K | 3.3    | 32      | 7.9          | 86              | 0.620       | 540            |
| AIAS-01-3R9K | 3.9    | 38      | 7.9          | 85              | 0.790       | 475            |
| AIAS-01-4R7K | 4.7    | 38      | 7.9          | 79              | 0.910       | 445            |
| AIAS-01-5R6K | 5.6    | 40      | 7.9          | 72              | 1.15        | 395            |
| AIAS-01-6R8K | 6.8    | 46      | 7.9          | 65              | 1.73        | 320            |
| AIAS-01-8R2K | 8.2    | 45      | 7.9          | 59              | 1.96        | 302            |
| AIAS-01-100K | 10     | 45      | 7.9          | 53              | 2.30        | 280            |

| Part Number  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | Idc (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------|
| AIAS-01-120K | 12     | 40      | 2.5          | 60              | 0.55        | 570            |
| AIAS-01-150K | 15     | 45      | 2.5          | 53              | 0.71        | 500            |
| AIAS-01-180K | 18     | 45      | 2.5          | 45.8            | 1.00        | 423            |
| AIAS-01-220K | 22     | 45      | 2.5          | 42.2            | 1.09        | 404            |
| AIAS-01-270K | 27     | 48      | 2.5          | 31.0            | 1.35        | 364            |
| AIAS-01-330K | 33     | 54      | 2.5          | 26.0            | 1.90        | 305            |
| AIAS-01-390K | 39     | 54      | 2.5          | 24.2            | 2.10        | 293            |
| AIAS-01-470K | 47     | 54      | 2.5          | 22.0            | 2.40        | 271            |
| AIAS-01-560K | 56     | 60      | 2.5          | 21.2            | 2.90        | 248            |
| AIAS-01-680K | 68     | 55      | 2.5          | 19.9            | 3.20        | 237            |
| AIAS-01-820K | 82     | 57      | 2.5          | 16.8            | 3.70        | 219            |
| AIAS-01-101K | 100    | 60      | 2.5          | 13.2            | 4.60        | 198            |
| AIAS-01-121K | 120    | 58      | 0.79         | 11.0            | 5.20        | 184            |
| AIAS-01-151K | 150    | 60      | 0.79         | 9.1             | 5.90        | 173            |
| AIAS-01-181K | 180    | 60      | 0.79         | 7.4             | 7.40        | 156            |
| AIAS-01-221K | 220    | 60      | 0.79         | 7.2             | 8.50        | 145            |
| AIAS-01-271K | 270    | 60      | 0.79         | 6.8             | 10.0        | 133            |
| AIAS-01-331K | 330    | 60      | 0.79         | 5.5             | 13.4        | 115            |
| AIAS-01-391K | 390    | 60      | 0.79         | 5.1             | 15.0        | 109            |
| AIAS-01-471K | 470    | 60      | 0.79         | 5.0             | 21.0        | 92             |
| AIAS-01-561K | 560    | 60      | 0.79         | 4.9             | 23.0        | 88             |
| AIAS-01-681K | 680    | 60      | 0.79         | 4.6             | 26.0        | 82             |
| AIAS-01-821K | 820    | 60      | 0.79         | 4.2             | 34.0        | 72             |
| AIAS-01-102K | 1000   | 60      | 0.79         | 4.0             | 39.0        | 67             |

### 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 SHIELDED INDUCTORS

## AIAS-02 SERIES

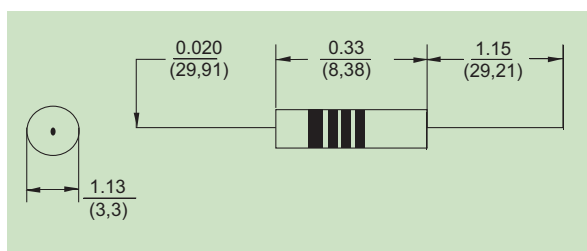


### STANDARD SPECIFICATIONS:

| Part Number  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | Idc (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------|
| AIAS-02-R12K | 0.12   | 42      | 25           | 500             | 0.126       | 1630           |
| AIAS-02-R15K | 0.15   | 42      | 25           | 500             | 0.138       | 1550           |
| AIAS-02-R18K | 0.18   | 42      | 25           | 336             | 0.165       | 1420           |
| AIAS-02-R22K | 0.22   | 42      | 25           | 331             | 0.198       | 1330           |
| AIAS-02-R27K | 0.27   | 42      | 25           | 298             | 0.220       | 1230           |
| AIAS-02-R33K | 0.33   | 42      | 25           | 288             | 0.258       | 1140           |
| AIAS-02-R39K | 0.39   | 42      | 25           | 271             | 0.292       | 1060           |
| AIAS-02-R47K | 0.47   | 41      | 25           | 247             | 0.360       | 960            |
| AIAS-02-R56K | 0.56   | 39      | 25           | 236             | 0.397       | 915            |
| AIAS-02-R68K | 0.68   | 36      | 25           | 216             | 0.472       | 840            |
| AIAS-02-R82K | 0.82   | 35      | 25           | 200             | 0.638       | 720            |
| AIAS-02-1R0K | 1.0    | 42      | 25           | 136             | 0.208       | 1260           |
| AIAS-02-1R2K | 1.2    | 38      | 7.9          | 120             | 0.225       | 1210           |
| AIAS-02-1R5K | 1.5    | 38      | 7.9          | 111             | 0.265       | 1120           |
| AIAS-02-1R8K | 1.8    | 38      | 7.9          | 103             | 0.285       | 1080           |
| AIAS-02-2R2K | 2.2    | 36      | 7.9          | 94.0            | 0.330       | 1000           |
| AIAS-02-2R7K | 2.7    | 38      | 7.9          | 84.8            | 0.381       | 935            |
| AIAS-02-3R3K | 3.3    | 38      | 7.9          | 78.4            | 0.432       | 875            |
| AIAS-02-3R9K | 3.9    | 40      | 7.9          | 72.8            | 0.576       | 755            |
| AIAS-02-4R7K | 4.7    | 42      | 7.9          | 66.4            | 0.787       | 650            |
| AIAS-02-5R6K | 5.6    | 42      | 7.9          | 61.6            | 1.04        | 565            |
| AIAS-02-6R8K | 6.8    | 45      | 7.9          | 54.6            | 1.40        | 485            |
| AIAS-02-8R2K | 8.2    | 47      | 7.9          | 49.6            | 1.68        | 440            |
| AIAS-02-100K | 10     | 51      | 7.9          | 44.0            | 2.58        | 355            |

| Part Number  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | Idc (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------|
| AIAS-02-120K | 12     | 51      | 2.5          | 39.2            | 3.65        | 300            |
| AIAS-02-150K | 15     | 45      | 2.5          | 44.0            | 3.62        | 620            |
| AIAS-02-180K | 18     | 43      | 2.5          | 40.0            | 1.02        | 570            |
| AIAS-02-220K | 22     | 42      | 2.5          | 36.0            | 1.12        | 545            |
| AIAS-02-270K | 27     | 37      | 2.5          | 32.8            | 1.28        | 510            |
| AIAS-02-330K | 33     | 46      | 2.5          | 29.6            | 1.70        | 440            |
| AIAS-02-390K | 39     | 38      | 2.5          | 26.4            | 1.99        | 405            |
| AIAS-02-470K | 47     | 42      | 2.5          | 23.2            | 2.41        | 370            |
| AIAS-02-560K | 56     | 41      | 2.5          | 21.6            | 2.85        | 340            |
| AIAS-02-680K | 68     | 46      | 2.5          | 18.4            | 3.21        | 320            |
| AIAS-02-820K | 82     | 46      | 2.5          | 16.8            | 3.57        | 305            |
| AIAS-02-101K | 100    | 43      | 2.5          | 15.2            | 4.10        | 280            |
| AIAS-02-121K | 120    | 50      | 0.79         | 14.4            | 5.97        | 235            |
| AIAS-02-151K | 150    | 49      | 0.79         | 12.0            | 7.05        | 215            |
| AIAS-02-181K | 180    | 56      | 0.79         | 11.2            | 8.12        | 200            |
| AIAS-02-221K | 220    | 53      | 0.79         | 9.6             | 14.8        | 150            |
| AIAS-02-271K | 270    | 57      | 0.79         | 9.2             | 16.8        | 140            |
| AIAS-02-331K | 330    | 57      | 0.79         | 8.4             | 18.6        | 130            |
| AIAS-02-391K | 390    | 57      | 0.79         | 8.0             | 21.1        | 120            |
| AIAS-02-471K | 470    | 50      | 0.79         | 6.8             | 32.2        | 100            |
| AIAS-02-561K | 560    | 50      | 0.79         | 6.0             | 36.4        | 95             |
| AIAS-02-681K | 680    | 56      | 0.79         | 5.6             | 41.1        | 90             |
| AIAS-02-821K | 820    | 49      | 0.79         | 5.2             | 45.0        | 85             |
| AIAS-02-102K | 1000   | 49      | 0.79         | 4.8             | 52.0        | 80             |

### 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 SHIELDED INDUCTORS

## AIAS-03 SERIES

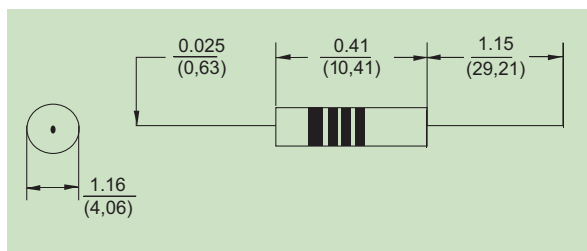


### STANDARD SPECIFICATIONS:

| Part Number  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | Idc (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------|
| AIAS-03-R10K | 0.10   | 50      | 25           | 250             | 0.025       | 2900           |
| AIAS-03-R12K | 0.12   | 51      | 25           | 250             | 0.034       | 2800           |
| AIAS-03-R15K | 0.15   | 51      | 25           | 250             | 0.037       | 2750           |
| AIAS-03-R18K | 0.18   | 50      | 25           | 250             | 0.050       | 2200           |
| AIAS-03-R22K | 0.22   | 49      | 25           | 250             | 0.067       | 1700           |
| AIAS-03-R27K | 0.27   | 47      | 25           | 250             | 0.110       | 1500           |
| AIAS-03-R33K | 0.33   | 46      | 25           | 250             | 0.13        | 1300           |
| AIAS-03-R39K | 0.39   | 44      | 25           | 250             | 0.18        | 110            |
| AIAS-03-R47K | 0.47   | 44      | 25           | 235             | 0.25        | 1000           |
| AIAS-03-R56K | 0.56   | 43      | 25           | 210             | 0.33        | 900            |
| AIAS-03-R68K | 0.68   | 42      | 25           | 190             | 0.45        | 750            |
| AIAS-03-R82K | 0.82   | 40      | 25           | 180             | 0.59        | 600            |
| AIAS-03-1R0K | 1.0    | 47      | 25           | 140             | 0.07        | 1900           |
| AIAS-03-1R2K | 1.2    | 46      | 7.9          | 130             | 0.09        | 1600           |
| AIAS-03-1R5K | 1.5    | 45      | 7.9          | 115             | 0.12        | 1300           |
| AIAS-03-1R8K | 1.8    | 43      | 7.9          | 105             | 0.14        | 1200           |
| AIAS-03-2R2K | 2.2    | 45      | 7.9          | 100             | 0.19        | 1100           |
| AIAS-03-2R7K | 2.7    | 46      | 7.9          | 92              | 0.28        | 950            |
| AIAS-03-3R3K | 3.3    | 44      | 7.9          | 85              | 0.35        | 800            |
| AIAS-03-3R9K | 3.9    | 44      | 7.9          | 75              | 0.40        | 750            |
| AIAS-03-4R7K | 4.7    | 44      | 7.9          | 70              | 0.55        | 650            |
| AIAS-03-5R6K | 5.6    | 47      | 7.9          | 65              | 0.72        | 550            |
| AIAS-03-6R8K | 6.8    | 50      | 7.9          | 55              | 1.02        | 500            |
| AIAS-03-8R2K | 8.2    | 50      | 7.9          | 50              | 1.32        | 475            |
| AIAS-03-100K | 10     | 49      | 7.9          | 46              | 1.62        | 450            |
| AIAS-03-120K | 12     | 55      | 2.5          | 44              | 1.00        | 400            |
| AIAS-03-150K | 15     | 45      | 2.5          | 49              | 0.80        | 620            |
| AIAS-03-180K | 18     | 45      | 2.5          | 45              | 0.89        | 610            |
| AIAS-03-220K | 22     | 46      | 2.5          | 40              | 0.96        | 600            |
| AIAS-03-270K | 27     | 49      | 2.5          | 38              | 1.19        | 500            |
| AIAS-03-330K | 33     | 45      | 2.5          | 34              | 1.37        | 490            |

| Part Number  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | Idc (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------|
| AIAS-03-390K | 39     | 53      | 2.5          | 29              | 1.93        | 410            |
| AIAS-03-470K | 47     | 52      | 2.5          | 27              | 2.11        | 400            |
| AIAS-03-560K | 56     | 49      | 2.5          | 25              | 2.23        | 380            |
| AIAS-03-680K | 68     | 51      | 2.5          | 21              | 2.70        | 370            |
| AIAS-03-820K | 82     | 45      | 2.5          | 11              | 2.44        | 360            |
| AIAS-03-101K | 100    | 45      | 2.5          | 10              | 3.12        | 325            |
| AIAS-03-121K | 120    | 57      | 0.79         | 9.7             | 3.60        | 290            |
| AIAS-03-151K | 150    | 56      | 0.79         | 8.5             | 4.10        | 275            |
| AIAS-03-181K | 180    | 60      | 0.79         | 8.0             | 4.40        | 260            |
| AIAS-03-221K | 220    | 58      | 0.79         | 7.5             | 5.00        | 250            |
| AIAS-03-271K | 270    | 60      | 0.79         | 7.0             | 5.80        | 240            |
| AIAS-03-331K | 330    | 54      | 0.79         | 6.5             | 6.40        | 225            |
| AIAS-03-391K | 390    | 67      | 0.79         | 6.2             | 7.40        | 200            |
| AIAS-03-471K | 470    | 60      | 0.79         | 5.7             | 9.50        | 180            |
| AIAS-03-561K | 560    | 60      | 0.79         | 4.7             | 10.5        | 174            |
| AIAS-03-681K | 680    | 60      | 0.79         | 4.5             | 11.8        | 168            |
| AIAS-03-821K | 820    | 57      | 0.79         | 4.2             | 12.0        | 152            |
| AIAS-03-102K | 1000   | 65      | 0.79         | 3.8             | 17.5        | 135            |
| AIAS-03-122K | 1200   | 45      | 0.25         | 1.5             | 22.1        | 115            |
| AIAS-03-152K | 1500   | 49      | 0.25         | 1.2             | 26.5        | 110            |
| AIAS-03-182K | 1800   | 47      | 0.25         | 1.0             | 29.9        | 105            |
| AIAS-03-222K | 2200   | 50      | 0.25         | 0.97            | 33.8        | 99             |
| AIAS-03-272K | 2700   | 47      | 0.25         | 0.92            | 47.3        | 83             |
| AIAS-03-332K | 3300   | 43      | 0.25         | 0.84            | 53.0        | 80             |
| AIAS-03-392K | 3900   | 43      | 0.25         | 0.80            | 73.8        | 67             |
| AIAS-03-472K | 4700   | 44      | 0.25         | 0.74            | 81.6        | 63             |
| AIAS-03-562K | 5600   | 45      | 0.25         | 0.73            | 98.9        | 56             |
| AIAS-03-682K | 6800   | 43      | 0.25         | 0.66            | 111         | 54             |
| AIAS-03-822K | 8200   | 42      | 0.25         | 0.54            | 119         | 52             |
| AIAS-03-103K | 10000  | 39      | 0.25         | 0.47            | 137         | 49             |

### PHYSICAL CHARACTERISTICS:



### TECHNICAL INFORMATION:

- Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
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# THROUGH-HOLE MOLDED SHIELDED INDUCTORS

## AIAS-04 SERIES

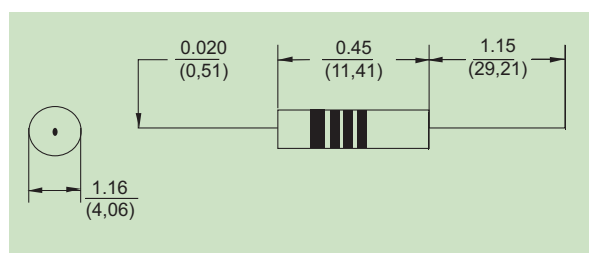


### STANDARD SPECIFICATIONS:

| PART NUMBER  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | Idc (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------|
| AIAS-04-121K | 120    | 65      | 0.79         | 11              | 2.45        | 311            |
| AIAS-04-151K | 150    | 65      | 0.79         | 10              | 2.79        | 294            |
| AIAS-04-181K | 180    | 65      | 0.79         | 10              | 3.08        | 277            |
| AIAS-04-221K | 220    | 65      | 0.79         | 9.4             | 3.48        | 251            |
| AIAS-04-271K | 270    | 65      | 0.79         | 8.0             | 4.55        | 231            |
| AIAS-04-331K | 330    | 65      | 0.79         | 7.3             | 5.10        | 215            |
| AIAS-04-391K | 390    | 65      | 0.79         | 6.9             | 5.62        | 205            |
| AIAS-04-471K | 470    | 70      | 0.79         | 6.5             | 6.45        | 192            |
| AIAS-04-561K | 560    | 70      | 0.79         | 6.0             | 8.00        | 174            |
| AIAS-04-681K | 680    | 75      | 0.79         | 5.6             | 8.85        | 163            |
| AIAS-04-821K | 820    | 70      | 0.79         | 4.8             | 10.4        | 151            |
| AIAS-04-102K | 1000   | 65      | 0.79         | 4.5             | 12.1        | 139            |
| AIAS-04-122K | 1200   | 70      | 0.25         | 2.6             | 15.1        | 125            |
| AIAS-04-152K | 1500   | 70      | 0.25         | 2.5             | 16.8        | 119            |
| AIAS-04-182K | 1800   | 70      | 0.25         | 2.3             | 19.1        | 111            |
| AIAS-04-222K | 2200   | 70      | 0.25         | 2.2             | 22.0        | 103            |
| AIAS-04-272K | 2700   | 70      | 0.25         | 2.1             | 25.1        | 97             |
| AIAS-04-332K | 3300   | 70      | 0.25         | 2.0             | 33.3        | 85             |

| PART NUMBER  | L (μH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR Ω (MAX) | Idc (mA) (MAX) |
|--------------|--------|---------|--------------|-----------------|-------------|----------------|
| AIAS-04-392K | 3900   | 70      | 0.25         | 1.8             | 36.8        | 80             |
| AIAS-04-472K | 4700   | 70      | 0.25         | 1.7             | 51.2        | 68             |
| AIAS-04-652K | 6500   | 70      | 0.25         | 1.6             | 54.6        | 66             |
| AIAS-04-682K | 6800   | 70      | 0.25         | 1.5             | 62.0        | 62             |
| AIAS-04-822K | 8200   | 70      | 0.25         | 1.4             | 86.6        | 52             |
| AIAS-04-103K | 10000  | 70      | 0.25         | 1.3             | 93.1        | 50             |
| AIAS-04-123K | 12000  | 50      | 0.25         | 0.88            | 84.0        | 53             |
| AIAS-04-153K | 15000  | 50      | 0.079        | 0.78            | 97.0        | 49             |
| AIAS-04-183K | 18000  | 50      | 0.079        | 0.72            | 104         | 48             |
| AIAS-04-223K | 22000  | 50      | 0.079        | 0.57            | 145         | 40             |
| AIAS-04-273K | 27000  | 50      | 0.079        | 0.46            | 195         | 34             |
| AIAS-04-333K | 33000  | 50      | 0.079        | 0.42            | 222         | 32             |
| AIAS-04-393K | 39000  | 50      | 0.079        | 0.42            | 242         | 31             |
| AIAS-04-473K | 47000  | 50      | 0.079        | 0.37            | 317         | 27             |
| AIAS-04-563K | 56000  | 50      | 0.079        | 0.36            | 362         | 25             |
| AIAS-04-683K | 68000  | 50      | 0.079        | 0.35            | 410         | 24             |
| AIAS-04-823K | 82000  | 50      | 0.079        | 0.34            | 440         | 23             |
| AIAS-04-104K | 100000 | 50      | 0.079        | 0.32            | 484         | 22             |

### 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.