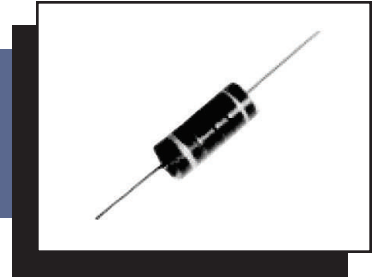


THROUGH-HOLE MOLDED SHIELDED INDUCTORS

AIAS-02 SERIES



STANDARD SPECIFICATIONS

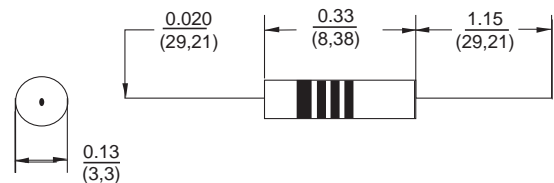
| Part Number ² | L ^{1,2} (mH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR W (MAX) | I _{DC} ³ (mA) (MAX) |
|--------------------------|-----------------------|---------|--------------|-----------------|-------------|---|
| AIAS-02-R12K | 0.12 | 42 | 25 | 500 | 0.126 | 1630 |
| AIAS-02-R15K | 0.15 | 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 ² | L ^{1,2} (mH) | Q (MIN) | L Test (MHz) | SRF (MIN) (MHz) | DCR W (MAX) | I _{DC} ³ (mA) (MAX) |
|--------------------------|-----------------------|---------|--------------|-----------------|-------------|---|
| AIAS-02-120K | 12 | 51 | 2.5 | 39.2 | 3.65 | 300 |
| AIAS-02-150K | 15 | 45 | 2.5 | 44.0 | .862 | 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 |

Notes:

1. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
2. Letter suffix indicates standard tolerance
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -55°C to +85°C
5. Storage temperature -55°C to +125°C
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Marking per EIA 4-band color code
8. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS⁶



ABRACON IS
ISO 9001 / QS 9000
CERTIFIED

29 Journey • Aliso Viejo, CA 92656 • USA
(949) 448-7070 • Fax: (949) 448-8484

E-MAIL: abinfo@abracon.com • INTERNET ADDRESS: www.abracon.com

