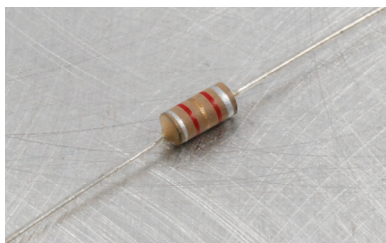
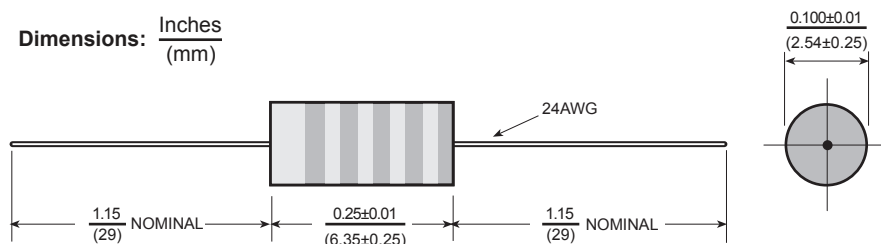




Axial Shielded Inductors AS20



Dimensions: $\frac{\text{Inches}}{\text{(mm)}}$



| Allied Part Number | Inductance (μh) | Tolerance (%) | Q Min. | Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | Rated Current (mA) |
|--------------------|-----------------|---------------|--------|------------------|----------------|--------------|--------------------|
| AS20-R10K-RC | .10 | 10 | 39 | 25 | 400 | 0.071 | 1580 |
| AS20-R12K-RC | .12 | 10 | 36 | 25 | 400 | 0.087 | 1360 |
| AS20-R15K-RC | .15 | 10 | 35 | 25 | 400 | 0.109 | 1280 |
| AS20-R18K-RC | .18 | 10 | 33 | 25 | 400 | 0.145 | 1110 |
| AS20-R22K-RC | .22 | 10 | 35 | 25 | 400 | 0.165 | 1040 |
| AS20-R27K-RC | .27 | 10 | 33 | 25 | 400 | 0.192 | 965 |
| AS20-R33K-RC | .33 | 10 | 33 | 25 | 370 | 0.228 | 885 |
| AS20-R39K-RC | .39 | 10 | 32 | 25 | 348 | 0.259 | 830 |
| AS20-R47K-RC | .47 | 10 | 33 | 25 | 312 | 0.348 | 717 |
| AS20-R56K-RC | .56 | 10 | 30 | 25 | 286 | 0.417 | 655 |
| AS20-R68K-RC | .68 | 10 | 30 | 25 | 262 | 0.580 | 555 |
| AS20-R82K-RC | .82 | 10 | 33 | 25 | 188 | 0.132 | 1160 |
| AS20-1R0K-RC | 1.0 | 10 | 35 | 25 | 166 | 0.169 | 1030 |
| AS20-1R2K-RC | 1.2 | 10 | 29 | 7.9 | 149 | 0.184 | 985 |
| AS20-1R5K-RC | 1.5 | 10 | 29 | 7.9 | 136 | 0.260 | 825 |
| AS20-1R8K-RC | 1.8 | 10 | 29 | 7.9 | 118 | 0.360 | 705 |
| AS20-2R2K-RC | 2.2 | 10 | 28 | 7.9 | 110 | 0.410 | 664 |
| AS20-2R7K-RC | 2.7 | 10 | 32 | 7.9 | 94 | 0.550 | 577 |
| AS20-3R3K-RC | 3.3 | 10 | 32 | 7.9 | 86 | 0.620 | 540 |
| AS20-3R9K-RC | 3.9 | 10 | 38 | 7.9 | 85 | 0.790 | 475 |
| AS20-4R7K-RC | 4.7 | 10 | 38 | 7.9 | 79 | 0.910 | 445 |
| AS20-5R6K-RC | 5.6 | 10 | 40 | 7.9 | 72 | 1.15 | 395 |
| AS20-6R8K-RC | 6.8 | 10 | 46 | 7.9 | 65 | 1.73 | 320 |
| AS20-8R2K-RC | 8.2 | 10 | 45 | 7.9 | 59 | 1.96 | 302 |
| AS20-100K-RC | 10 | 10 | 45 | 7.9 | 53 | 2.30 | 280 |
| AS20-120K-RC | 12 | 10 | 40 | 2.5 | 60 | 0.55 | 570 |
| AS20-150K-RC | 15 | 10 | 45 | 2.5 | 53 | .710 | 500 |
| AS20-180K-RC | 18 | 10 | 45 | 2.5 | 45.8 | 1.00 | 423 |
| AS20-220K-RC | 22 | 10 | 45 | 2.5 | 42.2 | 1.09 | 404 |
| AS20-270K-RC | 27 | 10 | 48 | 2.5 | 31 | 1.35 | 364 |
| AS20-330K-RC | 33 | 10 | 54 | 2.5 | 26 | 1.90 | 305 |
| AS20-390K-RC | 39 | 10 | 54 | 2.5 | 24.2 | 2.10 | 293 |
| AS20-470K-RC | 47 | 10 | 54 | 2.5 | 22 | 2.40 | 271 |
| AS20-560K-RC | 56 | 10 | 60 | 2.5 | 21.2 | 2.90 | 248 |
| AS20-680K-RC | 68 | 10 | 55 | 2.5 | 29.9 | 3.20 | 237 |
| AS20-820K-RC | 82 | 10 | 57 | 2.5 | 16.8 | 3.70 | 219 |
| AS20-101K-RC | 100 | 10 | 60 | 2.5 | 13.2 | 4.60 | 198 |
| AS20-121K-RC | 120 | 10 | 58 | 0.79 | 11 | 5.20 | 184 |
| AS20-151K-RC | 150 | 10 | 60 | 0.79 | 9.1 | 5.90 | 173 |
| AS20-181K-RC | 180 | 10 | 60 | 0.79 | 7.4 | 7.40 | 156 |
| AS20-221K-RC | 220 | 10 | 60 | 0.79 | 7.2 | 8.50 | 145 |
| AS20-271K-RC | 270 | 10 | 60 | 0.79 | 6.8 | 10.0 | 133 |
| AS20-331K-RC | 330 | 10 | 60 | 0.79 | 5.5 | 13.4 | 115 |
| AS20-391K-RC | 390 | 10 | 60 | 0.79 | 5.1 | 15.0 | 109 |
| AS20-471K-RC | 470 | 10 | 60 | 0.79 | 5.0 | 21.0 | 92 |
| AS20-561K-RC | 560 | 10 | 60 | 0.79 | 4.9 | 23.0 | 88 |
| AS20-681K-RC | 680 | 10 | 60 | 0.79 | 4.6 | 26.0 | 82 |
| AS20-821K-RC | 820 | 10 | 60 | 0.79 | 4.2 | 34.0 | 72 |
| AS20-102K-RC | 1000 | 10 | 60 | 0.79 | 4.0 | 39.0 | 67 |

All specifications subject to change without notice.

Electrical

Rated Current: Inductance will drop < 10% at rated current.

Tolerance: ±10% over the entire inductance range. Tighter tolerances available.

Shielding: < 5% coupling with 2 units side by side at 1 KHz.

Test Procedures: L & Q Measured with HP4342A Q-Meter at specified Frequency. DCR Measured on CH-301 SRF Measured on HP-4191A, HP4291B.

Operating Temp.: -55°C to + 125°C.

Physical

Marking (on part): 5 Band Color Code per MIL-C-15305.

Marking (on reel): Manufacturers Name, Part Number, Customers Part Number, Invoice Number, Lot or Data Code.

Packaging (bulk): 1,000 pieces per bag.

Packaging (tape & reel): 5000 pieces per reel.

For Tape and Reel packaging please add "-TR" to the part number.