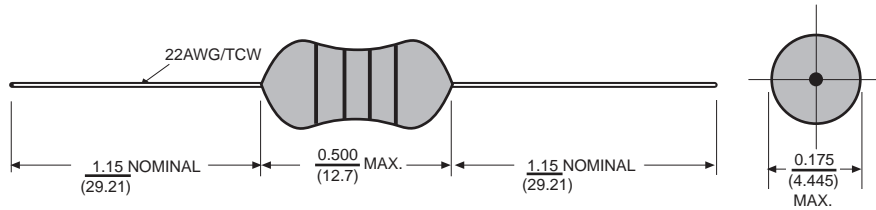


AE80 Series Axial Epoxy Inductors



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



Features

- High Current Capacity
- Expanded operating temp range
- Low DC Resistance
- Available on Tape and Reel, Ammo Pack, or Bulk.

Electrical

Inductance Range: 0.7 μ h to 10,000 μ h

Tolerance: K=10%, M=20%

Available in tighter tolerances.

Test Frequency for (L):

0.7 μ h @ 1Mhz

1.0 μ h to 1000 μ h @ 1Khz

1200 μ h to 10000 μ h @ 1Khz

Operating Temp: -55°C ~ +125°C

Current Rating: Based on a 40% temp rise at 85°C ambient.

Incremental Current: The current at which the inductance will decrease by a maximum of 5% from its initial value with no current.

Test Equipment

(L): HP 4284A LCR Meter or equivalent

(Q): HP4342 Q Meter

DCR: HP4263B Current Source and DCR Meter

IDC: 11021 Current Source and DCR Meter

Physical

Packaging: 3K per Tape and Reel, Ammo Pack, Bulk 500/bag.

Marking: 4 Band EIA Color Code

| Allied Part Number | Inductance (μ h) | Q Min | Q Test Freq Mhz | DCR (Ohms) Max | Current Rating (A) Max | Incremental Current (A) |
|--------------------|-----------------------|-------|-----------------|----------------|------------------------|-------------------------|
| AE80-R70M-RC | 0.7 | 20 | 7.9 | 0.010 | 7.00 | 7.0 |
| AE80-1R0K-RC | 1.0 | 20 | 7.9 | 0.013 | 5.50 | 4.1 |
| AE80-1R2K-RC | 1.2 | 20 | 7.9 | 0.018 | 4.69 | 3.8 |
| AE80-1R5K-RC | 1.5 | 20 | 7.9 | 0.020 | 4.45 | 3.5 |
| AE80-1R8K-RC | 1.8 | 20 | 7.9 | 0.021 | 4.34 | 3.2 |
| AE80-2R2K-RC | 2.2 | 20 | 7.9 | 0.029 | 3.70 | 2.8 |
| AE80-2R7K-RC | 2.7 | 20 | 7.9 | 0.034 | 3.41 | 2.5 |
| AE80-3R3K-RC | 3.3 | 20 | 7.9 | 0.038 | 3.23 | 2.4 |
| AE80-3R9K-RC | 3.9 | 20 | 7.9 | 0.042 | 3.07 | 2.2 |
| AE80-4R7K-RC | 4.7 | 20 | 7.9 | 0.047 | 2.90 | 2.0 |
| AE80-5R6K-RC | 5.6 | 20 | 7.9 | 0.051 | 2.79 | 1.8 |
| AE80-6R8K-RC | 6.8 | 20 | 7.9 | 0.058 | 2.61 | 1.7 |
| AE80-8R2K-RC | 8.2 | 20 | 7.9 | 0.063 | 2.51 | 1.5 |
| AE80-100K-RC | 10 | 25 | 2.5 | 0.071 | 2.36 | 1.4 |
| AE80-120K-RC | 12 | 25 | 2.5 | 0.084 | 2.24 | 1.3 |
| AE80-150K-RC | 15 | 25 | 2.5 | 0.089 | 2.11 | 1.2 |
| AE80-180K-RC | 18 | 25 | 2.5 | 0.119 | 1.82 | 1.1 |
| AE80-220K-RC | 22 | 25 | 2.5 | 0.152 | 1.61 | 1.02 |
| AE80-270K-RC | 27 | 25 | 2.5 | 0.179 | 1.48 | 0.85 |
| AE80-330K-RC | 33 | 25 | 2.5 | 0.222 | 1.33 | 0.88 |
| AE80-390K-RC | 39 | 25 | 2.5 | 0.315 | 1.12 | 0.80 |
| AE80-470K-RC | 47 | 25 | 2.5 | 0.362 | 1.04 | 0.74 |
| AE80-560K-RC | 56 | 25 | 2.5 | 0.397 | 1.00 | 0.68 |
| AE80-680K-RC | 68 | 25 | 2.5 | 0.418 | 0.97 | 0.62 |
| AE80-820K-RC | 82 | 25 | 2.5 | 0.604 | 0.81 | 0.56 |
| AE90-101K-RC | 100 | 35 | 0.79 | 0.672 | 0.76 | 0.50 |
| AE80-121K-RC | 120 | 35 | 0.79 | 0.735 | 0.73 | 0.45 |
| AE80-151K-RC | 150 | 35 | 0.79 | 0.998 | 0.63 | 0.40 |
| AE80-181K-RC | 180 | 35 | 0.79 | 1.370 | 0.53 | 0.35 |
| AE80-221K-RC | 220 | 35 | 0.79 | 1.580 | 0.50 | 0.32 |
| AE80-271K-RC | 270 | 35 | 0.79 | 1.770 | 0.47 | 0.30 |
| AE80-331K-RC | 330 | 35 | 0.79 | 2.510 | 0.39 | 0.28 |
| AE80-391K-RC | 390 | 35 | 0.79 | 2.730 | 0.38 | 0.26 |
| AE80-471K-RC | 470 | 35 | 0.79 | 3.250 | 0.35 | 0.24 |
| AE80-561K-RC | 560 | 35 | 0.79 | 3.750 | 0.33 | 0.23 |
| AE80-681K-RC | 680 | 35 | 0.79 | 4.310 | 0.30 | 0.20 |
| AE80-821K-RC | 820 | 35 | 0.79 | 6.040 | 0.26 | 0.17 |
| AE80-102K-RC | 1000 | 40 | 0.25 | 6.900 | 0.24 | 0.15 |
| AE80-122K-RC | 1200 | 40 | 0.25 | 9.00 | 0.15 | 0.087 |
| AE80-152K-RC | 1500 | 40 | 0.25 | 12.00 | 0.13 | 0.078 |
| AE80-182K-RC | 1800 | 40 | 0.25 | 14.00 | 0.12 | 0.071 |
| AE80-222K-RC | 2200 | 40 | 0.25 | 19.00 | 0.10 | 0.064 |
| AE80-272K-RC | 2700 | 40 | 0.25 | 25.00 | 0.090 | 0.058 |
| AE80-332K-RC | 3300 | 40 | 0.25 | 29.00 | 0.083 | 0.052 |
| AE80-392K-RC | 3900 | 40 | 0.25 | 34.00 | 0.077 | 0.048 |
| AE80-472K-RC | 4700 | 40 | 0.25 | 37.00 | 0.074 | 0.044 |
| AE80-562K-RC | 5600 | 40 | 0.25 | 50.00 | 0.063 | 0.040 |
| AE80-682K-RC | 6800 | 40 | 0.25 | 58.00 | 0.059 | 0.036 |
| AE80-822K-RC | 8200 | 40 | 0.25 | 68.00 | 0.054 | 0.033 |
| AE80-103K-RC | 10000 | 40 | 0.079 | 75.00 | 0.052 | 0.030 |

All specifications subject to change without notice.