# DRQ Series

## Dual Winding, Shielded Inductors/Transformer




RoHS 2002/95/EC

- Peak current ratings from 0.13 amps to 56 amps
- RMS current ratings from 0.128 amps to 17.9 amps
- Inductance ratings from 0.33µH to 4.02mH
- Surface Mount
- 200Vac Isolation between windings
- Ferrite core material

### Description

- 125°C maximum total operating temperature
- Dual winding inductors that can be used as either a single inductor, or in coupled inductor/transformer applications (1:1 turns ratio)
- Four sizes of shielded drum core inductors
- Windings can be connected in series or parallel, offering a broad range of inductance and current ratings

### Applications

- As a transformer: SEPIC, flyback
- As an inductor: buck, boost, coupled inductor
- DC-DC converters
- VRM inductor for CPU and DDR power supplies
- Input and output filter chokes

### Environmental Data

- Storage temperature: -40°C to +125°C
- Operating temperature: -40°C to +125°C (range is application specific).
- Solder reflow temperature: 260°C max. for 10 seconds max.

### Packaging

- Supplied in tape and reel packaging, 1350 (DRQ73), 1100 (DRQ74), 600 (DRQ125), and 350 (DRQ127) per reel

| | | Parallel Ratings | | | | | Series Ratings | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Part Number** | **Rated Inductance (µH)** | **OCL(1) +/-20% (µH)** | **$I_{rms}$(2) Amps** | **$I_{sat}$(3) Amps Peak** | **DCR Ω (4) typ.** | **Volt(5) µ-Sec** | **OCL(1) +/-20% (µH)** | **$I_{rms}$(2) Amps** | **$I_{sat}$(3) Amps Peak** | **DCR Ω (4) typ.** | **Volt(5) µ-Sec** |
| **DRQ73-R33-R** | 0.33 | 0.306 | 6.19 | 14.4 | 0.0074 | 1.98 | 1.224 | 3.10 | 7.18 | 0.0296 | 3.96 |
| **DRQ73-1R0-R** | 1.00 | 0.992 | 5.25 | 7.97 | 0.0103 | 3.56 | 3.968 | 2.63 | 3.99 | 0.0411 | 7.12 |
| **DRQ73-1R5-R** | 1.50 | 1.482 | 4.64 | 6.52 | 0.0132 | 4.36 | 5.928 | 2.32 | 3.26 | 0.0527 | 8.72 |
| **DRQ73-2R2-R** | 2.20 | 2.070 | 4.11 | 5.52 | 0.0167 | 5.15 | 8.280 | 2.06 | 2.76 | 0.0669 | 10.3 |
| **DRQ73-3R3-R** | 3.30 | 3.540 | 3.31 | 4.22 | 0.0259 | 6.73 | 14.16 | 1.66 | 2.11 | 0.1035 | 13.5 |
| **DRQ73-4R7-R** | 4.70 | 4.422 | 3.09 | 3.78 | 0.0297 | 7.52 | 17.69 | 1.55 | 1.89 | 0.1188 | 15.0 |
| **DRQ73-6R8-R** | 6.80 | 6.480 | 2.55 | 3.12 | 0.0435 | 9.11 | 25.92 | 1.28 | 1.56 | 0.1742 | 18.2 |
| **DRQ73-8R2-R** | 8.20 | 8.930 | 2.19 | 2.66 | 0.0592 | 10.7 | 35.72 | 1.10 | 1.33 | 0.2368 | 21.4 |
| **DRQ73-100-R** | 10.0 | 10.30 | 2.08 | 2.47 | 0.0656 | 11.5 | 41.20 | 1.04 | 1.24 | 0.2623 | 23.0 |
| **DRQ73-150-R** | 15.0 | 15.01 | 1.83 | 2.05 | 0.0844 | 13.9 | 60.04 | 0.916 | 1.03 | 0.339 | 27.8 |
| **DRQ73-220-R** | 22.0 | 22.65 | 1.62 | 1.67 | 0.107 | 17.0 | 90.60 | 0.811 | 0.83 | 0.429 | 34.0 |
| **DRQ73-330-R** | 33.0 | 34.41 | 1.31 | 1.35 | 0.166 | 21.0 | 137.6 | 0.653 | 0.68 | 0.665 | 42.0 |
| **DRQ73-470-R** | 47.0 | 48.62 | 1.08 | 1.14 | 0.241 | 24.9 | 194.5 | 0.542 | 0.57 | 0.965 | 49.8 |
| **DRQ73-680-R** | 68.0 | 68.91 | 0.89 | 0.96 | 0.358 | 29.7 | 275.6 | 0.444 | 0.48 | 1.43 | 59.4 |
| **DRQ73-820-R** | 82.0 | 80.37 | 0.86 | 0.89 | 0.384 | 32.1 | 321.5 | 0.430 | 0.44 | 1.54 | 64.2 |
| **DRQ73-101-R** | 100 | 101.4 | 0.73 | 0.79 | 0.527 | 36.0 | 405.6 | 0.367 | 0.39 | 2.11 | 72.0 |

1) Open Circuit Inductance Test Parameters: 100kHz, 0.25 $V_{rms}$, 0.0 Adc
Parallel: (1,2 -4,3) Series: (1-4) tie (2-3)
2) RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C.
3) Peak current for approximately 30% roll-off at 20°C
4) DCR limits @ 20°C
5) Applied Volt-Time product (V-µS) across the inductor. This value represents the applied V-µS at 100KHz necessary to generate a core loss equal to 10% of the total losses for a 40°C temperature rise.
6) Turns Ratio (1:3):(2-4) 1:1
7) Part number definition: DRQxxx-yyy-R
DRQxxx = product code and size,
-yyy = inductance value in µH,
R = decimal point. If no R is present, third character = # of zeros
-R suffix = RoHS compliant

| | | Parallel Ratings | | | | | Series Ratings | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Part Number** | **Rated Inductance (µH)** | **OCL[1] +/-20% (µH)** | **$I_{rms}$[2] Amps** | **$I_{sat}$[3] Amps Peak** | **DCR Ω [4] typ.** | **Volt[5] µ-Sec** | **OCL[1] +/-20% (µH)** | **$I_{rms}$[2] Amps** | **$I_{sat}$[3] Amps Peak** | **DCR Ω [4] typ.** | **Volt[5] µ-Sec** |
| **DRQ73-151-R** | 150 | 150.9 | 0.58 | 0.65 | 0.851 | 44.0 | 603.6 | 0.289 | 0.32 | 3.41 | 88.0 |
| **DRQ73-221-R** | 220 | 223.3 | 0.52 | 0.53 | 1.05 | 53.5 | 893.2 | 0.260 | 0.27 | 4.20 | 107 |
| **DRQ73-331-R** | 330 | 325.5 | 0.42 | 0.44 | 1.59 | 64.5 | 1302 | 0.211 | 0.22 | 6.36 | 129 |
| **DRQ73-471-R** | 470 | 465.8 | 0.35 | 0.37 | 2.36 | 77.2 | 1863 | 0.173 | 0.18 | 9.44 | 154 |
| **DRQ73-681-R** | 680 | 676.5 | 0.29 | 0.31 | 3.47 | 93.1 | 2706 | 0.143 | 0.15 | 13.88 | 186 |
| **DRQ73-821-R** | 820 | 821.7 | 0.27 | 0.28 | 3.93 | 103 | 3287 | 0.134 | 0.14 | 15.72 | 206 |
| **DRQ73-102-R** | 1000 | 995.0 | 0.26 | 0.25 | 4.34 | 113 | 3980 | 0.128 | 0.13 | 17.36 | 226 |
| **DRQ74-R33-R** | 0.33 | 0.294 | 6.20 | 18.4 | 0.0074 | 1.71 | 1.176 | 3.10 | 9.18 | 0.0295 | 3.42 |
| **DRQ74-1R0-R** | 1.00 | 0.952 | 5.33 | 10.2 | 0.0100 | 3.08 | 3.808 | 2.66 | 5.10 | 0.0400 | 6.16 |
| **DRQ74-1R5-R** | 1.50 | 1.422 | 4.96 | 8.35 | 0.0115 | 3.76 | 5.688 | 2.48 | 4.17 | 0.0461 | 7.52 |
| **DRQ74-2R2-R** | 2.20 | 1.986 | 4.66 | 7.06 | 0.0130 | 4.45 | 7.944 | 2.33 | 3.53 | 0.0521 | 8.9 |
| **DRQ74-3R3-R** | 3.30 | 3.396 | 3.94 | 5.40 | 0.0183 | 5.81 | 13.58 | 1.97 | 2.70 | 0.0732 | 11.6 |
| **DRQ74-4R7-R** | 4.70 | 5.182 | 3.34 | 4.37 | 0.0254 | 7.18 | 20.73 | 1.67 | 2.19 | 0.102 | 14.4 |
| **DRQ74-6R8-R** | 6.80 | 7.344 | 2.60 | 3.67 | 0.0418 | 8.55 | 29.38 | 1.30 | 1.84 | 0.167 | 17.1 |
| **DRQ74-8R2-R** | 8.20 | 8.566 | 2.53 | 3.40 | 0.0441 | 9.23 | 34.26 | 1.27 | 1.70 | 0.177 | 18.5 |
| **DRQ74-100-R** | 10.0 | 9.882 | 2.41 | 3.17 | 0.0489 | 9.92 | 39.53 | 1.20 | 1.58 | 0.196 | 19.8 |
| **DRQ74-150-R** | 15.0 | 16.09 | 2.11 | 2.48 | 0.0637 | 12.7 | 64.36 | 1.05 | 1.24 | 0.255 | 25.4 |
| **DRQ74-220-R** | 22.0 | 21.73 | 1.75 | 2.13 | 0.0925 | 14.7 | 86.92 | 0.874 | 1.07 | 0.371 | 29.4 |
| **DRQ74-330-R** | 33.0 | 33.01 | 1.41 | 1.73 | 0.143 | 18.1 | 132.0 | 0.702 | 0.87 | 0.574 | 36.2 |
| **DRQ74-470-R** | 47.0 | 49.64 | 1.15 | 1.41 | 0.216 | 22.2 | 198.6 | 0.573 | 0.71 | 0.865 | 44.4 |
| **DRQ74-680-R** | 68.0 | 69.67 | 1.03 | 1.19 | 0.265 | 26.3 | 278.7 | 0.517 | 0.60 | 1.06 | 52.6 |
| **DRQ74-820-R** | 82.0 | 80.95 | 0.91 | 1.11 | 0.345 | 28.4 | 323.8 | 0.453 | 0.55 | 1.38 | 56.8 |
| **DRQ74-101-R** | 100 | 101.6 | 0.86 | 0.99 | 0.383 | 31.8 | 406.4 | 0.430 | 0.49 | 1.53 | 63.6 |
| **DRQ74-151-R** | 150 | 150.0 | 0.69 | 0.81 | 0.591 | 38.6 | 600.0 | 0.346 | 0.41 | 2.37 | 77.2 |
| **DRQ74-221-R** | 220 | 227.0 | 0.56 | 0.66 | 0.907 | 47.5 | 908.0 | 0.279 | 0.33 | 3.63 | 95 |
| **DRQ74-331-R** | 330 | 335.6 | 0.45 | 0.54 | 1.41 | 57.8 | 1342 | 0.224 | 0.27 | 5.66 | 116 |
| **DRQ74-471-R** | 470 | 465.3 | 0.40 | 0.46 | 1.74 | 68.1 | 1861 | 0.202 | 0.23 | 6.97 | 136 |
| **DRQ74-681-R** | 680 | 671.2 | 0.33 | 0.38 | 2.58 | 81.7 | 2685 | 0.166 | 0.19 | 10.3 | 163 |
| **DRQ74-821-R** | 820 | 812.7 | 0.31 | 0.35 | 2.93 | 89.9 | 3251 | 0.156 | 0.17 | 11.7 | 180 |
| **DRQ74-102-R** | 1000 | 1009 | 0.27 | 0.31 | 3.89 | 100 | 4036 | 0.135 | 0.16 | 15.6 | 200 |
| **DRQ125-R47-R** | 0.47 | 0.456 | 17.6 | 33.0 | 0.0018 | 3.17 | 1.824 | 8.80 | 16.5 | 0.0078 | 6.34 |
| **DRQ125-1R0-R** | 1.00 | 0.894 | 15.0 | 23.6 | 0.0024 | 4.43 | 3.576 | 7.51 | 11.8 | 0.0096 | 8.86 |
| **DRQ125-1R5-R** | 1.50 | 1.478 | 13.8 | 18.3 | 0.0029 | 5.70 | 5.912 | 6.89 | 9.15 | 0.0114 | 11.40 |
| **DRQ125-2R2-R** | 2.20 | 2.208 | 10.9 | 15.0 | 0.0045 | 6.97 | 8.832 | 5.46 | 7.50 | 0.0182 | 13.9 |
| **DRQ125-3R3-R** | 3.30 | 3.084 | 9.26 | 12.7 | 0.0063 | 8.23 | 12.34 | 4.63 | 6.35 | 0.0253 | 16.5 |
| **DRQ125-4R7-R** | 4.70 | 5.274 | 7.18 | 9.71 | 0.0105 | 10.8 | 21.10 | 3.59 | 4.86 | 0.0420 | 21.6 |
| **DRQ125-6R8-R** | 6.80 | 6.588 | 6.64 | 8.68 | 0.0123 | 12.0 | 26.35 | 3.32 | 4.34 | 0.0492 | 24.0 |
| **DRQ125-8R2-R** | 8.20 | 8.048 | 5.54 | 7.86 | 0.0176 | 13.3 | 32.19 | 2.77 | 3.93 | 0.0705 | 26.6 |
| **DRQ125-100-R** | 10.0 | 9.654 | 5.35 | 7.17 | 0.0189 | 14.6 | 38.62 | 2.67 | 3.59 | 0.0757 | 29.2 |
| **DRQ125-150-R** | 15.0 | 15.35 | 4.27 | 5.69 | 0.0298 | 18.4 | 61.40 | 2.13 | 2.85 | 0.120 | 36.8 |
| **DRQ125-220-R** | 22.0 | 22.36 | 3.70 | 4.71 | 0.0396 | 22.2 | 89.44 | 1.84 | 2.36 | 0.159 | 44.4 |
| **DRQ125-330-R** | 33.0 | 33.74 | 3.28 | 3.84 | 0.0505 | 27.2 | 135.0 | 1.64 | 1.92 | 0.203 | 54.4 |
| **DRQ125-470-R** | 47.0 | 47.47 | 2.71 | 3.24 | 0.0740 | 32.3 | 189.9 | 1.35 | 1.62 | 0.297 | 64.6 |
| **DRQ125-680-R** | 68.0 | 67.91 | 2.22 | 2.70 | 0.101 | 38.6 | 271.6 | 1.11 | 1.35 | 0.440 | 77.2 |

1) Open Circuit Inductance Test Parameters: 100kHz, 0.25 $V_{rms}$, 0.0 Adc
Parallel: (1,2 -4,3) Series: (1-4) tie (2-3)
2) RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C.
3) Peak current for approximately 30% roll-off at 20°C
4) DCR limits @ 20°C
5) Applied Volt-Time product (V-µS) across the inductor. This value represents the applied V-µS at 100KHz necessary to generate a core loss equal to 10% of the total losses for a 40°C temperature rise.
6) Turns Ratio (1:3):(2-4) 1:1
7) Part number definition: DRQxxx-yyy-R
DRQxxx = product code and size,
-yyy = inductance value in µH,
R = decimal point. If no R is present, third character = # of zeros
-R suffix = RoHS compliant

| | | Parallel Ratings | | | | | Series Ratings | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Part Number** | **Rated Inductance (µH)** | **OCL[1] +/-20% (µH)** | **$I_{rms}$[2] Amps** | **$I_{sat}$[3] Amps Peak** | **DCR Ω [4] typ.** | **Volt[5] µ-Sec** | **OCL[1] +/-20% (µH)** | **$I_{rms}$[2] Amps** | **$I_{sat}$[3] Amps Peak** | **DCR Ω [4] typ.** | **Volt[5] µ-Sec** |
| **DRQ125-820-R** | 82.0 | 86.89 | 2.05 | 2.39 | 0.128 | 43.7 | 347.6 | 1.03 | 1.20 | 0.515 | 87.4 |
| **DRQ125-101-R** | 100 | 102.7 | 1.78 | 2.20 | 0.170 | 47.5 | 410.8 | 0.892 | 1.10 | 0.682 | 95.0 |
| **DRQ125-151-R** | 150 | 151.1 | 1.48 | 1.81 | 0.248 | 57.6 | 604.4 | 0.739 | 0.905 | 0.991 | 115.2 |
| **DRQ125-221-R** | 220 | 216.8 | 1.19 | 1.51 | 0.384 | 69.0 | 867.2 | 0.594 | 0.755 | 1.54 | 138 |
| **DRQ125-331-R** | 330 | 332.6 | 1.06 | 1.22 | 0.482 | 85.5 | 1330 | 0.530 | 0.610 | 1.93 | 171 |
| **DRQ125-471-R** | 470 | 473.1 | 0.87 | 1.02 | 0.718 | 102 | 1892 | 0.434 | 0.510 | 2.87 | 204 |
| **DRQ125-681-R** | 680 | 679.8 | 0.70 | 0.85 | 1.10 | 122 | 2719 | 0.350 | 0.425 | 4.42 | 244 |
| **DRQ125-821-R** | 820 | 828.0 | 0.60 | 0.77 | 1.49 | 135 | 3312 | 0.301 | 0.385 | 5.96 | 270 |
| **DRQ125-102-R** | 1000 | 1008 | 0.57 | 0.70 | 1.69 | 149 | 4032 | 0.283 | 0.350 | 6.76 | 298 |
| **DRQ127-R47-R** | 0.47 | 0.419 | 17.9 | 56.0 | 0.00195 | 3.50 | 1.676 | 8.94 | 28 | 0.0078 | 7.00 |
| **DRQ127-1R0-R** | 1.00 | 0.821 | 15.5 | 40.0 | 0.00261 | 4.90 | 3.284 | 7.74 | 20 | 0.0104 | 9.80 |
| **DRQ127-1R5-R** | 1.50 | 1.357 | 13.5 | 31.1 | 0.00341 | 6.30 | 5.428 | 6.77 | 15.6 | 0.0137 | 12.60 |
| **DRQ127-2R2-R** | 2.20 | 2.027 | 12.5 | 25.5 | 0.00373 | 7.70 | 8.108 | 6.23 | 12.7 | 0.0161 | 15.4 |
| **DRQ127-3R3-R** | 3.30 | 2.831 | 10.4 | 21.5 | 0.00567 | 9.10 | 11.32 | 5.23 | 10.8 | 0.0229 | 18.2 |
| **DRQ127-4R7-R** | 4.70 | 4.841 | 8.25 | 16.5 | 0.00917 | 11.9 | 19.36 | 4.13 | 8.24 | 0.0367 | 23.8 |
| **DRQ127-6R8-R** | 6.80 | 7.387 | 7.34 | 13.3 | 0.0116 | 14.7 | 29.55 | 3.67 | 6.67 | 0.0465 | 29.4 |
| **DRQ127-8R2-R** | 8.20 | 8.861 | 6.32 | 12.2 | 0.0157 | 16.1 | 35.44 | 3.16 | 6.09 | 0.0627 | 32.2 |
| **DRQ127-100-R** | 10.0 | 10.47 | 6.04 | 11.2 | 0.0172 | 17.5 | 41.88 | 3.02 | 5.60 | 0.0686 | 35.0 |
| **DRQ127-150-R** | 15.0 | 14.09 | 5.03 | 9.66 | 0.0247 | 20.3 | 56.36 | 2.51 | 4.83 | 0.0990 | 40.6 |
| **DRQ127-220-R** | 22.0 | 22.93 | 4.00 | 7.57 | 0.0391 | 25.9 | 91.72 | 2.00 | 3.78 | 0.157 | 51.8 |
| **DRQ127-330-R** | 33.0 | 33.92 | 3.23 | 6.22 | 0.0600 | 31.5 | 135.7 | 1.61 | 3.11 | 0.241 | 63.0 |
| **DRQ127-470-R** | 47.0 | 47.05 | 2.95 | 5.28 | 0.0719 | 37.1 | 188.2 | 1.47 | 2.64 | 0.288 | 74.2 |
| **DRQ127-680-R** | 68.0 | 66.48 | 2.44 | 4.44 | 0.105 | 44.1 | 265.9 | 1.22 | 2.22 | 0.421 | 88.2 |
| **DRQ127-820-R** | 82.0 | 79.75 | 2.09 | 4.06 | 0.143 | 48.3 | 319.0 | 1.04 | 2.03 | 0.573 | 96.6 |
| **DRQ127-101-R** | 100 | 99.31 | 1.96 | 3.64 | 0.163 | 53.9 | 397.2 | 0.980 | 1.82 | 0.653 | 107.8 |
| **DRQ127-151-R** | 150 | 144.9 | 1.59 | 3.01 | 0.247 | 65.1 | 579.6 | 0.796 | 1.51 | 0.989 | 130.2 |
| **DRQ127-221-R** | 220 | 221.5 | 1.29 | 2.43 | 0.376 | 80.5 | 886.0 | 0.645 | 1.22 | 1.50 | 161 |
| **DRQ127-331-R** | 330 | 323.6 | 1.04 | 2.01 | 0.574 | 97.3 | 1294 | 0.522 | 1.01 | 2.30 | 195 |
| **DRQ127-471-R** | 470 | 467.1 | 0.85 | 1.68 | 0.861 | 117 | 1868 | 0.427 | 0.838 | 3.44 | 234 |
| **DRQ127-681-R** | 680 | 676.7 | 0.76 | 1.39 | 1.08 | 141 | 2707 | 0.380 | 0.697 | 4.32 | 282 |
| **DRQ127-821-R** | 820 | 818.1 | 0.65 | 1.27 | 1.47 | 155 | 3272 | 0.325 | 0.633 | 5.88 | 310 |
| **DRQ127-102-R** | 1000 | 1005 | 0.61 | 1.14 | 1.66 | 172 | 4020 | 0.307 | 0.571 | 6.64 | 344 |

1) Open Circuit Inductance Test Parameters: 100kHz, 0.25 $V_{rms}$, 0.0 Adc
   Parallel: (1,2 -4,3) Series: (1-4) tie (2-3)
2) RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C.
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6) Turns Ratio (1:3):(2-4) 1:1
7) Part number definition: DRQxxx-yyy-R
   DRQxxx = product code and size,
   -yyy = inductance value in µH,
   R = decimal point. If no R is present, third character = # of zeros
   -R suffix = RoHS compliant

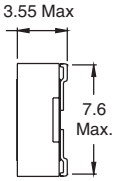
## Dimensions - mm

### DRQ73 Series

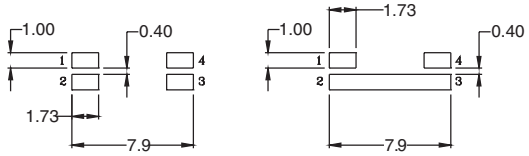
Top View




Side View

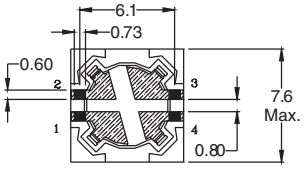



Recommended Pad Layout

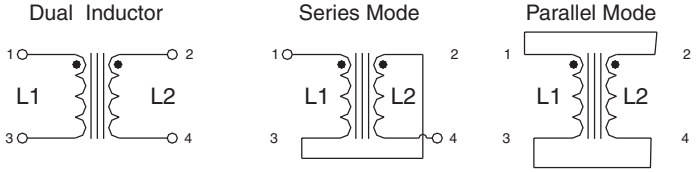



Dual Inductor Mode  Series Mode

Bottom View




Schematic

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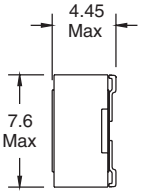
### DRQ74 Series

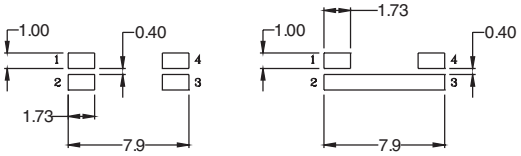
Top View




Side View

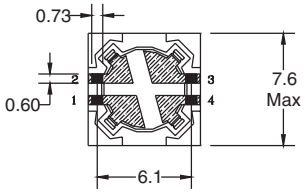



Recommended Pad Layout

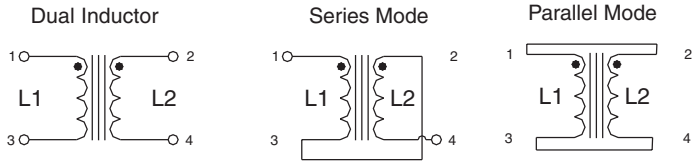



Dual Inductor Mode  Series Mode

Bottom View




Schematic

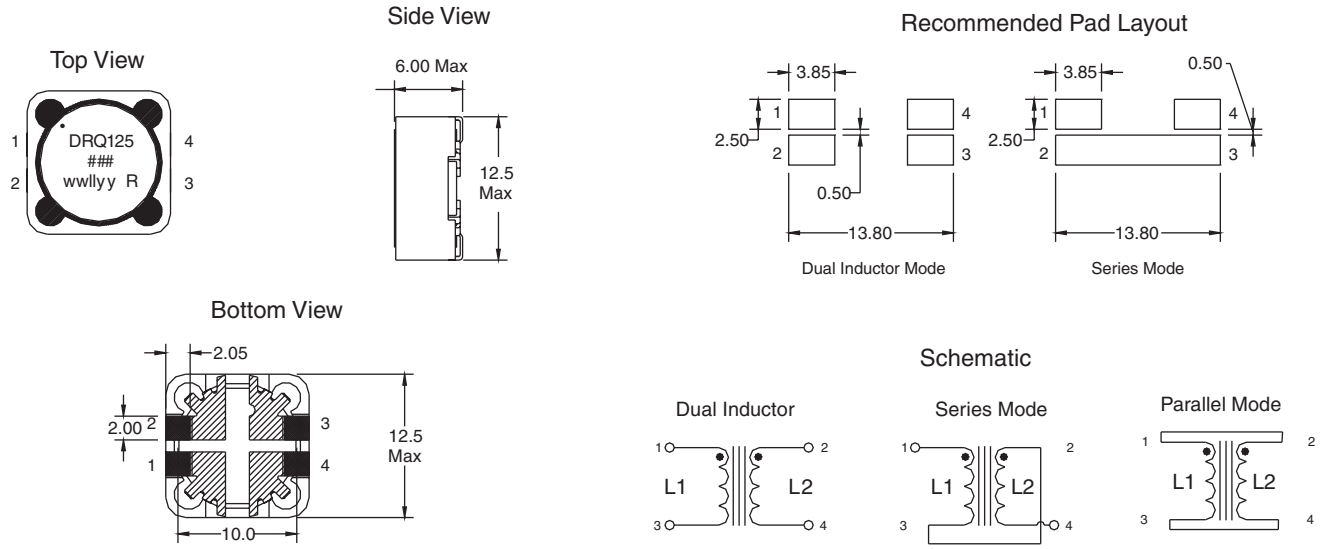



Dimensions in millimeters.

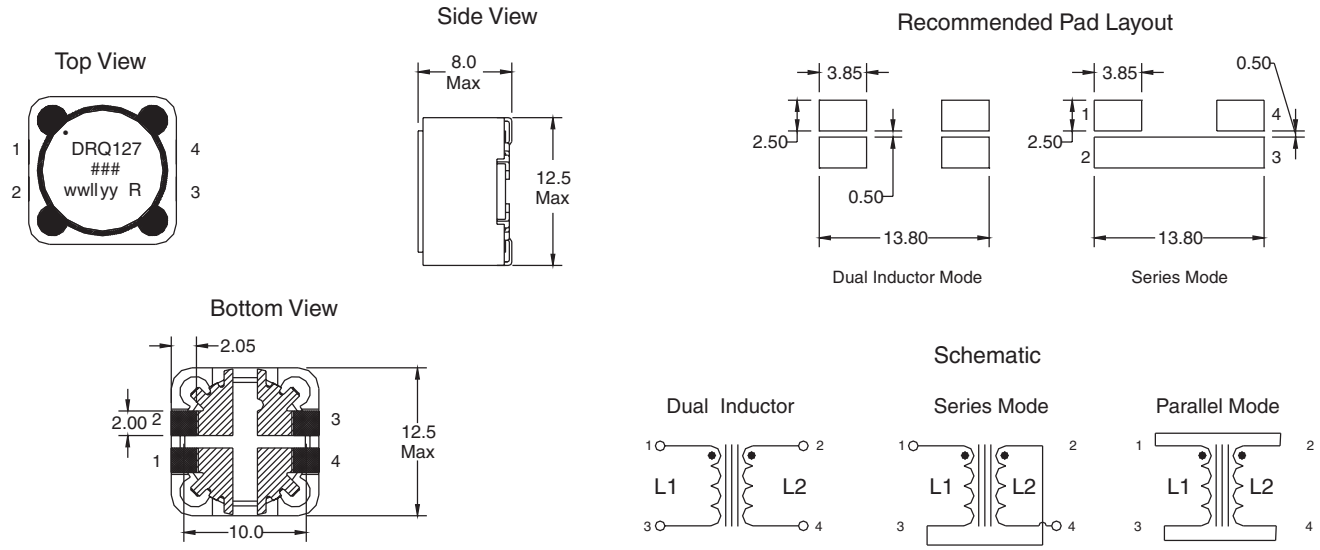
### = Inductance value per family chart
Dot indicates pin #1

## Dimensions - mm

### DRQ125 Series




### DRQ127 Series



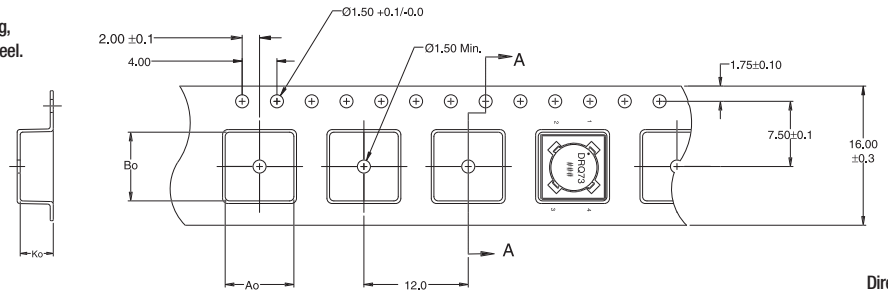

Dimensions in millimeters.

### = Inductance value per family chart
wwllyy = (date code) R = revision level
Dot indicates pin #1

## Packaging Information

### DRQ73 Series

Supplied in tape and reel packaging,
1350 parts per reel, 13" diameter reel.






ACTUAL SIZE
DRQ73

Ao=7.90mm
Bo=7.90mm
Ko=3.80mm

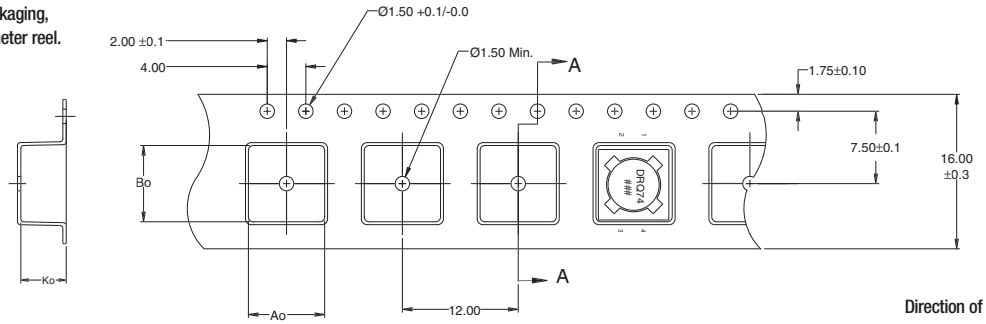
SECTION A-A

Direction of Feed →

---

### DRQ74 Series

Supplied in tape and reel packaging,
1100 parts per reel, 13" diameter reel.






ACTUAL SIZE
DRQ74

Ao=7.90mm
Bo=7.90mm
Ko=4.70mm

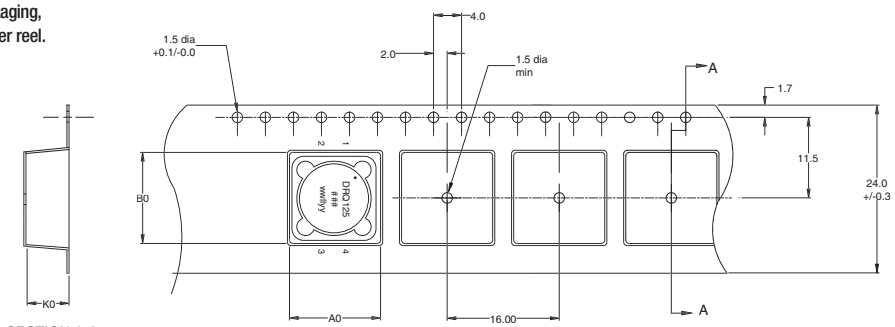
SECTION A-A

Direction of Feed →

---

### DRQ125 Series

Supplied in tape and reel packaging,
600 parts per reel, 13" diameter reel.






ACTUAL SIZE
DRQ125

Ao=13.00mm
Bo=13.00mm
Ko=6.30mm

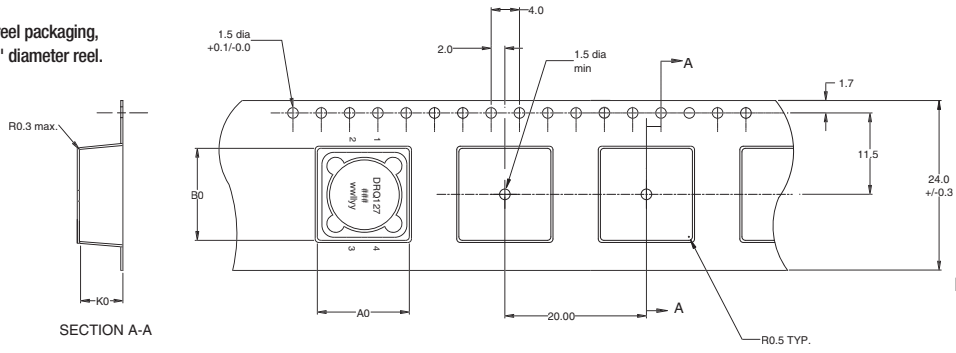
SECTION A-A

Direction of Feed →

---

### DRQ127 Series

Supplied in tape and reel packaging,
350 parts per reel, 13" diameter reel.






ACTUAL SIZE
DRQ127

Ao=13.00mm
Bo=13.00mm
Ko=8.30mm

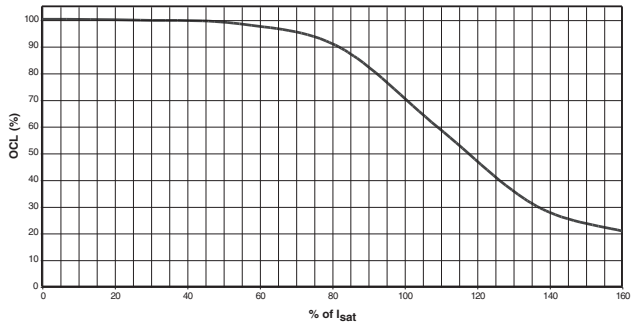
SECTION A-A

Direction of Feed →

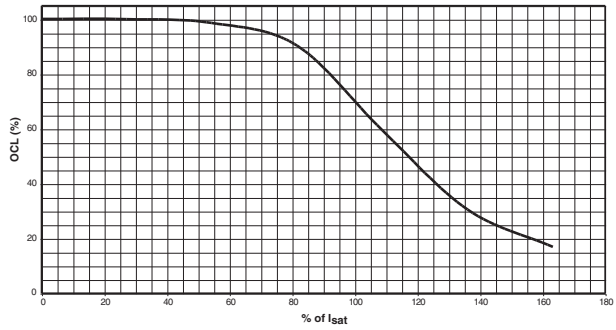
Dimensions are in millimeters.

## Inductance Characteristics

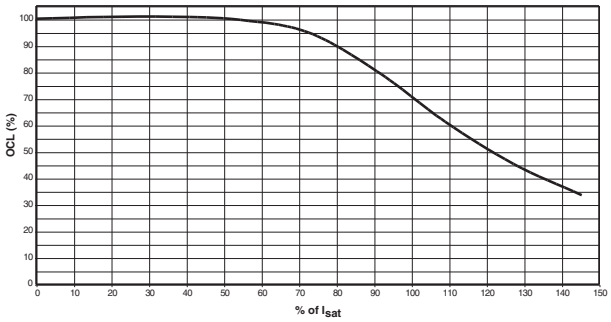
OCL vs $I_{sat}$ DRQ73



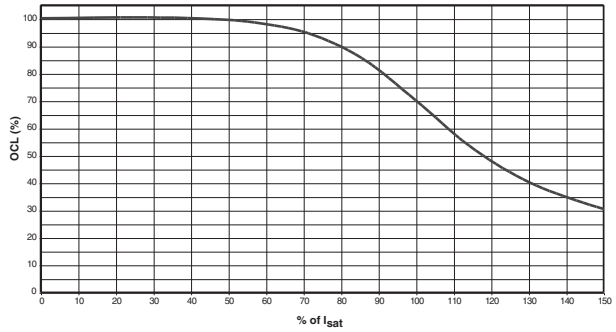

OCL vs $I_{sat}$ DRQ74




OCL vs $I_{sat}$ DRQ125

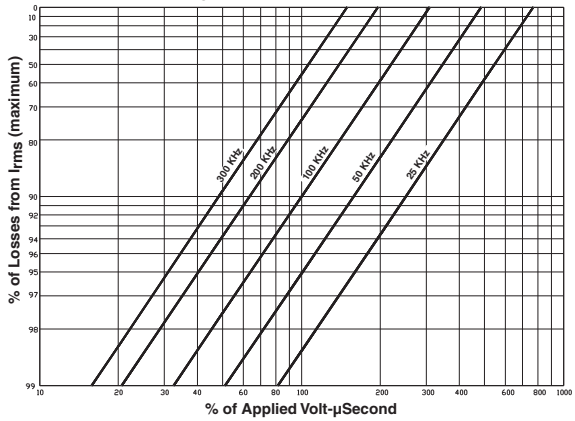



OCL vs $I_{sat}$ DRQ127




## Core Loss

$I_{rms}$ DERATING WITH CORE LOSS

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