

## DRQ Series

### Dual Winding, Shielded Inductors/Transformer



#### 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

- 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

RoHS  
2002/95/EC

#### 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

| Part Number | Rated Inductance (μH) | Parallel Ratings                     |                                         |                                              |                              |                              | Series Ratings                       |                                         |                                              |                              |                              |
|-------------|-----------------------|--------------------------------------|-----------------------------------------|----------------------------------------------|------------------------------|------------------------------|--------------------------------------|-----------------------------------------|----------------------------------------------|------------------------------|------------------------------|
|             |                       | OCL <sup>(1)</sup><br>+/-20%<br>(μH) | I <sub>rms</sub> <sup>(2)</sup><br>Amps | I <sub>sat</sub> <sup>(3)</sup><br>Amps Peak | DCR Ω <sup>(4)</sup><br>typ. | Volt <sup>(5)</sup><br>μ-Sec | OCL <sup>(1)</sup><br>+/-20%<br>(μH) | I <sub>rms</sub> <sup>(2)</sup><br>Amps | I <sub>sat</sub> <sup>(3)</sup><br>Amps Peak | DCR Ω <sup>(4)</sup><br>typ. | Volt <sup>(5)</sup><br>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<sub>rms</sub>, 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

| Part Number  | Rated Inductance (μH) | Parallel Ratings                     |                                         |                                                 |                              |                              | Series Ratings                       |                                         |                                                 |                              |                              |
|--------------|-----------------------|--------------------------------------|-----------------------------------------|-------------------------------------------------|------------------------------|------------------------------|--------------------------------------|-----------------------------------------|-------------------------------------------------|------------------------------|------------------------------|
|              |                       | OCL <sup>(1)</sup><br>+/-20%<br>(μH) | I <sub>rms</sub> <sup>(2)</sup><br>Amps | I <sub>sat</sub> <sup>(3)</sup><br>Amps<br>Peak | DCR Ω <sup>(4)</sup><br>typ. | Volt <sup>(5)</sup><br>μ-Sec | OCL <sup>(1)</sup><br>+/-20%<br>(μH) | I <sub>rms</sub> <sup>(2)</sup><br>Amps | I <sub>sat</sub> <sup>(3)</sup><br>Amps<br>Peak | DCR Ω <sup>(4)</sup><br>typ. | Volt <sup>(5)</sup><br>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<sub>rms</sub>, 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

| Part Number  | Rated Inductance (μH) | Parallel Ratings                     |                                         |                                              |                              |                              | Series Ratings                       |                                         |                                              |                              |                              |
|--------------|-----------------------|--------------------------------------|-----------------------------------------|----------------------------------------------|------------------------------|------------------------------|--------------------------------------|-----------------------------------------|----------------------------------------------|------------------------------|------------------------------|
|              |                       | OCL <sup>(1)</sup><br>+/-20%<br>(μH) | I <sub>rms</sub> <sup>(2)</sup><br>Amps | I <sub>sat</sub> <sup>(3)</sup><br>Amps Peak | DCR Ω <sup>(4)</sup><br>typ. | Volt <sup>(6)</sup><br>μ-Sec | OCL <sup>(1)</sup><br>+/-20%<br>(μH) | I <sub>rms</sub> <sup>(2)</sup><br>Amps | I <sub>sat</sub> <sup>(3)</sup><br>Amps Peak | DCR Ω <sup>(4)</sup><br>typ. | Volt <sup>(6)</sup><br>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<sub>rms</sub>, 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,

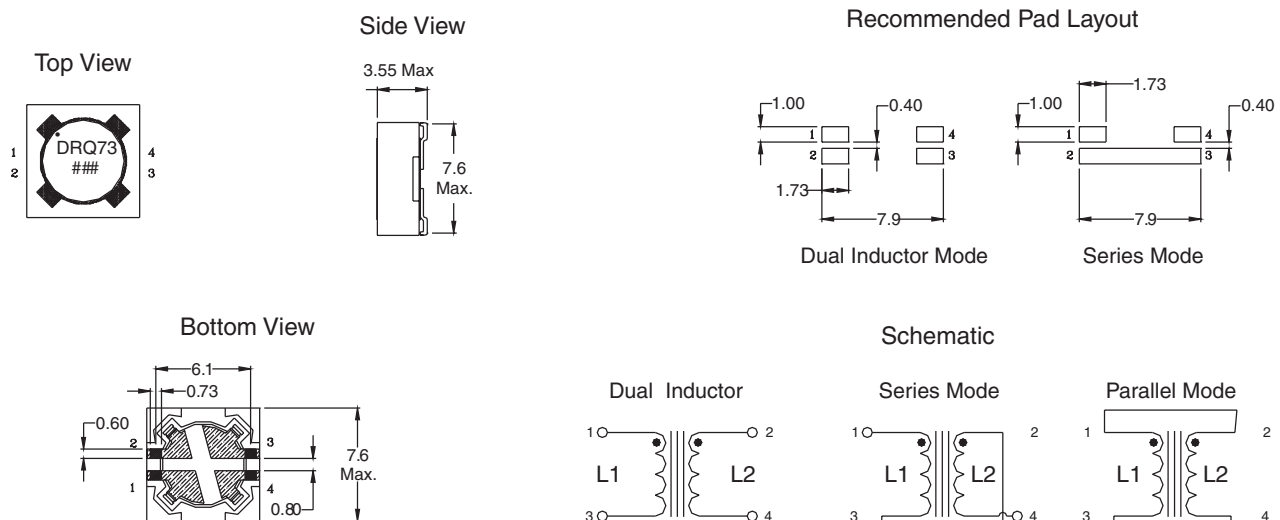
-yyy = inductance value in μH,

R = decimal point. If no R is present, third character = # of zeros

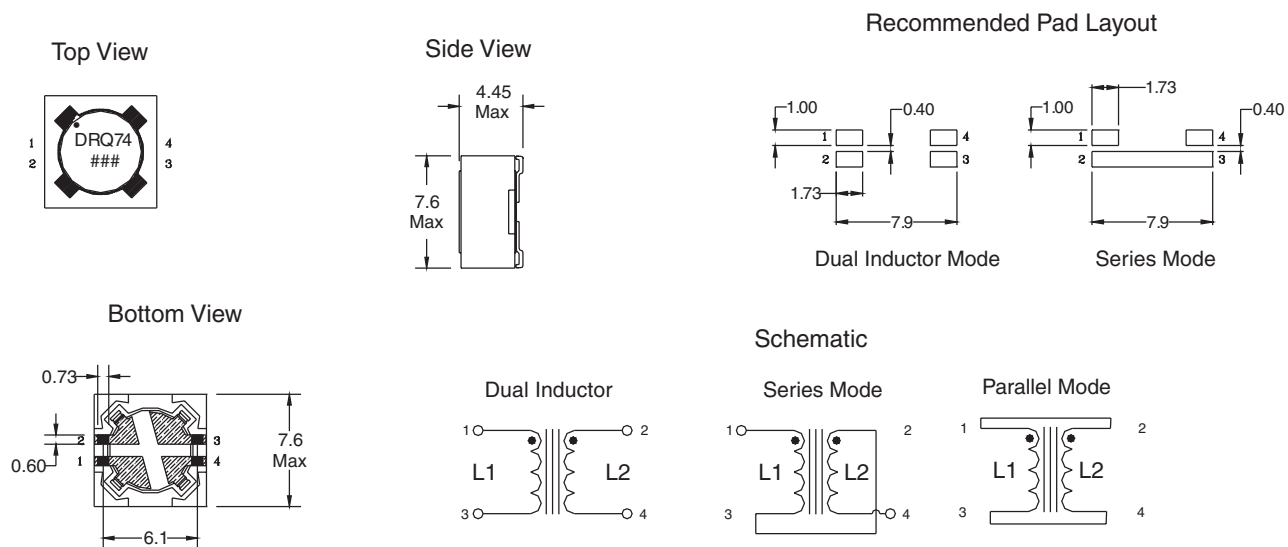
-R suffix = RoHS compliant

## Dimensions - mm

### DRQ73 Series



### DRQ74 Series

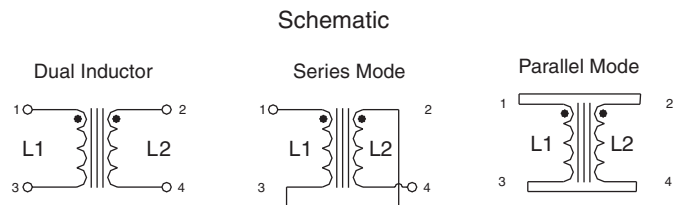
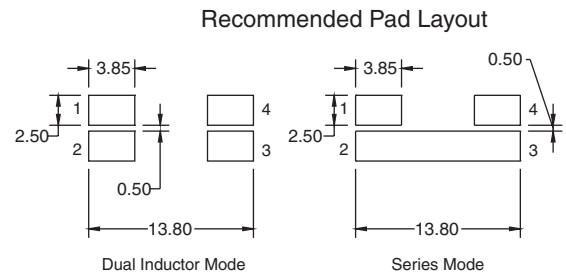
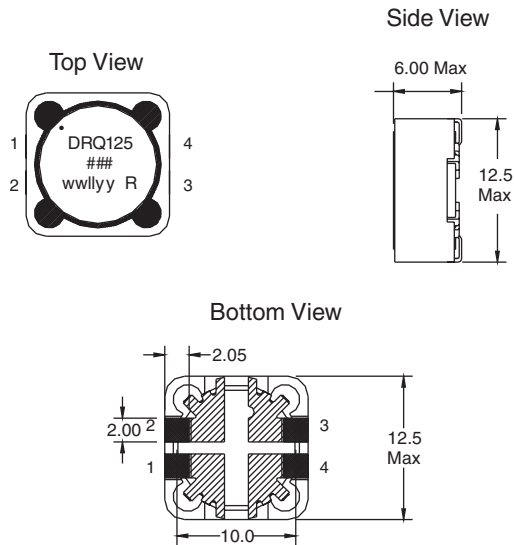


Dimensions in millimeters.

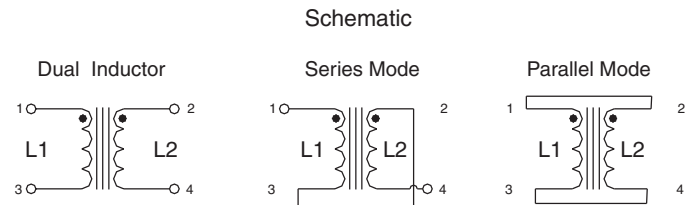
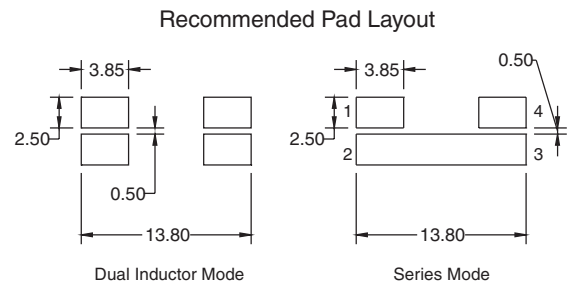
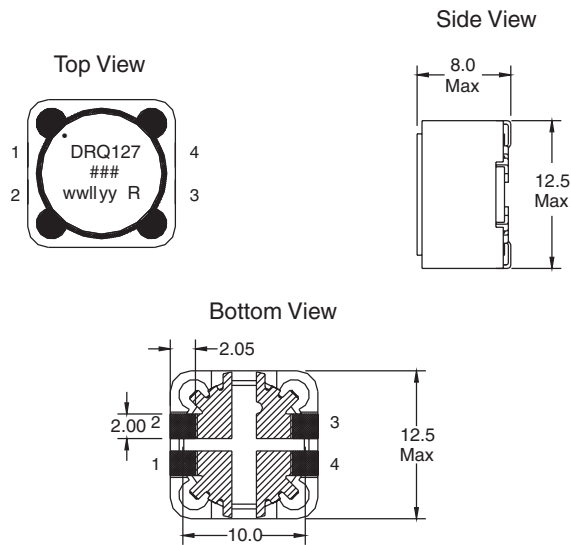
### = Inductance value per family chart  
Dot indicates pin #1

## Dimensions - mm

### DRQ125 Series



### DRQ127 Series



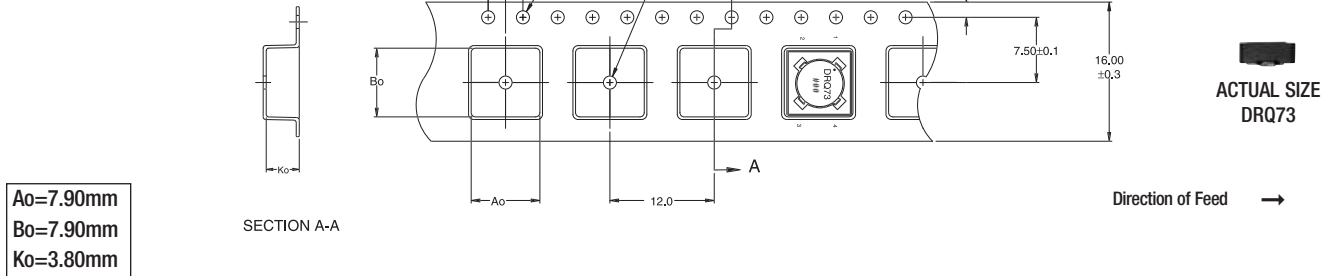
Dimensions in millimeters.

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

## Packaging Information

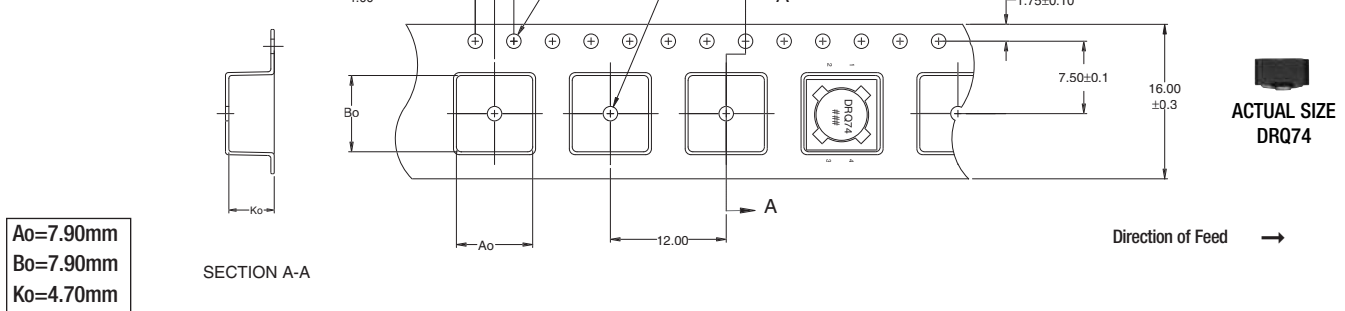
### DRQ73 Series

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



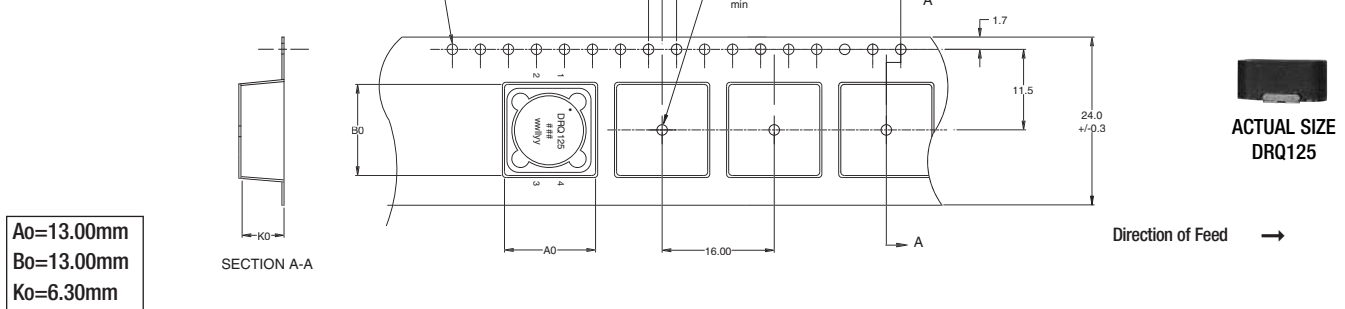
### DRQ74 Series

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



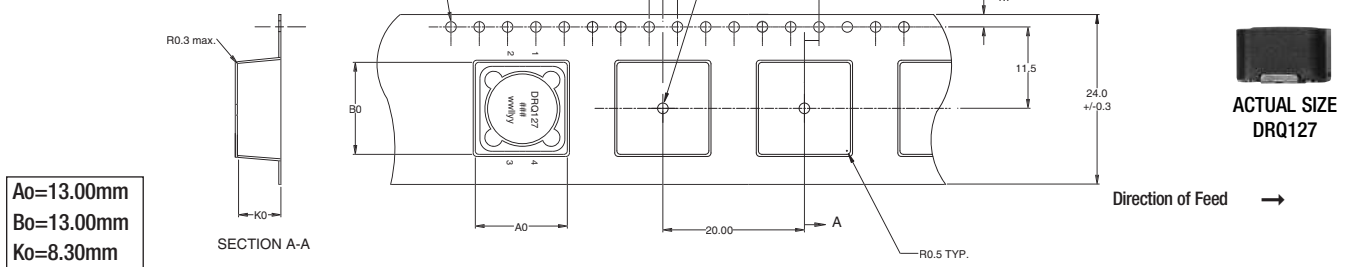
### DRQ125 Series

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



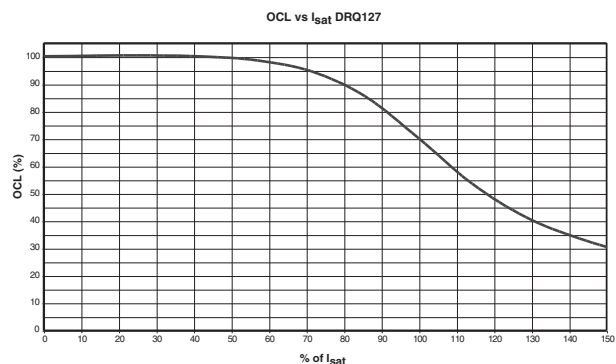
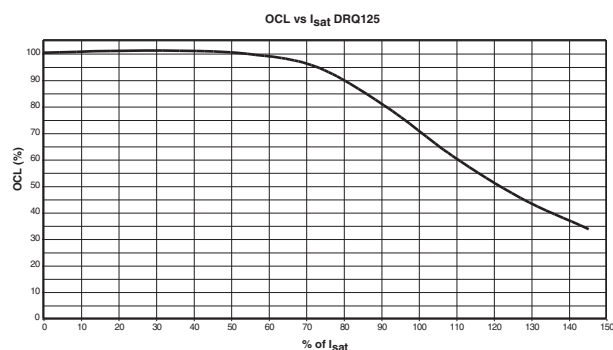
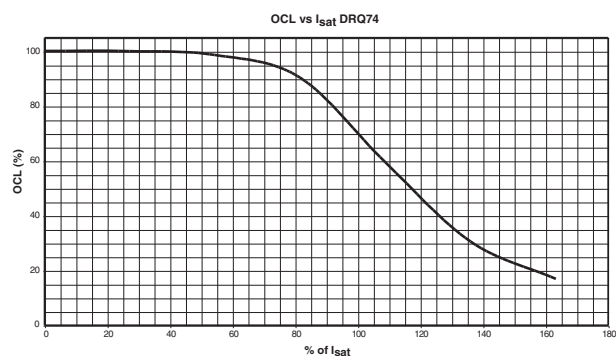
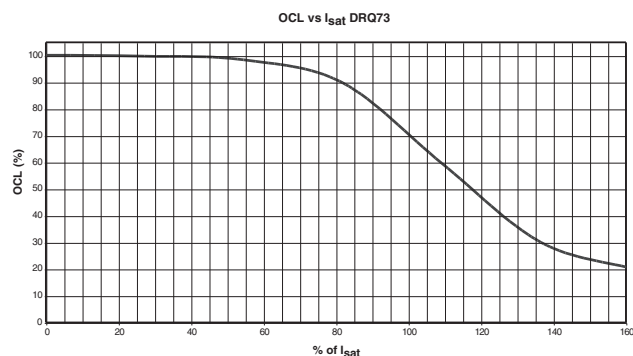
### DRQ127 Series

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

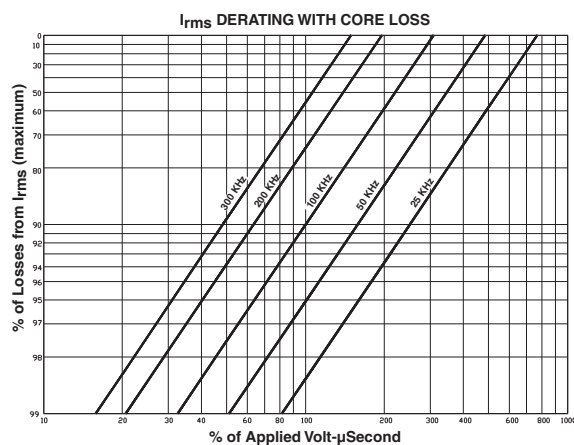


Dimensions are in millimeters.

## Inductance Characteristics



## Core Loss



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