



### Dimensions

| Code            | A              | B              | C             | D             | E             |
|-----------------|----------------|----------------|---------------|---------------|---------------|
| Dimensions (mm) | $4.4 \pm 0.35$ | $4.2 \pm 0.25$ | $1.8 \pm 0.2$ | $2.0 \pm 0.2$ | $0.8 \pm 0.3$ |

### Specifications

| Characteristic   | L0 (μH) | I <sub>rms</sub> (A) | I <sub>sat</sub> (A) | DCR <sub>typ</sub> (mΩ) | DCR <sub>max</sub> (mΩ) |
|------------------|---------|----------------------|----------------------|-------------------------|-------------------------|
| DCYC0420A-R24M-T | 0.24    | 13                   | 19                   | 5.5                     | 6.4                     |
| DCYC0420A-R33M-T | 0.33    | 10                   | 12                   | 7.4                     | 8.5                     |
| DCYC0420A-R47M-T | 0.47    | 8.5                  | 11                   | 10.6                    | 12.6                    |
| DCYC0420A-R56M-T | 0.56    | 8                    | 10                   | 10.9                    | 12.5                    |
| DCYC0420A-R68M-T | 0.68    | 7                    | 9                    | 12.2                    | 14                      |
| DCYC0420A-1R0M-T | 1       | 6.5                  | 7                    | 19.4                    | 22.3                    |
| DCYC0420A-1R2M-T | 1.2     | 6                    | 6.5                  | 22.8                    | 26.2                    |
| DCYC0420A-1R5M-T | 1.5     | 5                    | 6                    | 26.8                    | 30.8                    |
| DCYC0420A-2R2M-T | 2.2     | 4.5                  | 5.5                  | 41.7                    | 48                      |
| DCYC0420A-3R3M-T | 3.3     | 3.3                  | 4                    | 74                      | 85.1                    |
| DCYC0420A-4R7M-T | 4.7     | 2.8                  | 3.2                  | 98.5                    | 113.2                   |
| DCYC0420A-6R8M-T | 6.8     | 2                    | 2.6                  | 167                     | 192                     |
| DCYC0420A-100M-T | 10      | 1.7                  | 2.2                  | 230                     | 265                     |
| DCYC0420A-150M-T | 15      | 1.5                  | 1.8                  | 320                     | 352                     |
| DCYC0420A-220M-T | 22      | 1.2                  | 1.65                 | 380                     | 408                     |

Inductance (L0) Test Parameters: 100kHz, 0.25V<sub>rms</sub>, 0.0Adc, +25° C

I<sub>rms</sub>: DC current for an approximate temperature rise of 40° C without core loss

DC current for approximately 30% rolloff at +25° C

Temperature grade -55°C-125°C