



### Dimensions

| Code            | A              | B              | C      | D             | E             |
|-----------------|----------------|----------------|--------|---------------|---------------|
| Dimensions (mm) | $13.2 \pm 0.5$ | $12.5 \pm 0.5$ | 6.5max | $4.0 \pm 0.3$ | $2.5 \pm 0.3$ |

### Specifications

| Characteristic   | $L_0$ ( $\mu H$ ) | $I_{rms}$ (A) | $I_{sat}$ (A) | $DCR_{typ}$ ( $m\Omega$ ) | $DCR_{max}$ ( $m\Omega$ ) |
|------------------|-------------------|---------------|---------------|---------------------------|---------------------------|
| DCYA1365A-R22M-F | 0.22              | 48.0          | 100.0         | 0.58                      | 0.70                      |
| DCYA1365A-R33M-F | 0.33              | 44.0          | 72.0          | 0.83                      | 0.92                      |
| DCYA1365A-R47M-F | 0.47              | 36.5          | 72.0          | 0.90                      | 1.05                      |
| DCYA1365A-1R0M-F | 1.0               | 28.0          | 30.0          | 1.65                      | 1.77                      |
| DCYA1365A-1R2M-F | 1.2               | 21.8          | 28.0          | 1.98                      | 2.12                      |
| DCYA1365A-1R5M-F | 1.5               | 20.5          | 26.0          | 2.10                      | 2.35                      |
| DCYA1365A-1R8M-F | 1.8               | 19.1          | 25.0          | 2.75                      | 2.94                      |
| DCYA1365A-2R2M-F | 2.2               | 17.6          | 22.0          | 2.96                      | 3.30                      |
| DCYA1365A-3R3M-F | 3.3               | 15.6          | 20.0          | 3.70                      | 4.30                      |
| DCYA1365A-4R7M-F | 4.7               | 11.0          | 15.0          | 6.70                      | 7.50                      |
| DCYA1365A-5R6M-F | 5.6               | 10.0          | 17.0          | 7.50                      | 9.00                      |
| DCYA1365A-6R8M-F | 6.8               | 9.0           | 20.0          | 10.00                     | 11.50                     |
| DCYA1365A-7R8M-F | 7.8               | 8.8           | 16.0          | 10.00                     | 11.50                     |
| DCYA1365A-8R2M-F | 8.2               | 8.2           | 13.0          | 11.50                     | 13.00                     |
| DCYA1365A-100M-F | 10.0              | 6.3           | 12.0          | 15.50                     | 17.50                     |
| DCYA1365A-120M-F | 12.0              | 6.1           | 11.0          | 17.00                     | 19.00                     |
| DCYA1365A-150M-F | 15.0              | 5.5           | 10.0          | 22.00                     | 25.00                     |
| DCYA1365A-220M-F | 22.0              | 4.8           | 8.0           | 31.30                     | 35.00                     |
| DCYA1365A-330M-F | 33.0              | 4.7           | 6.0           | 42.00                     | 45.00                     |
| DCYA1365A-560M-F | 56.0              | 4.6           | 4.6           | 55.00                     | 65.00                     |

Inductance ( $L_0$ ) Test Parameters: 100KHz, 0.25Vrms, 0.0Adc, +25° C

$I_{rms}$ : 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~155°C