

### FEATURES

- Ferrite core provides high withstand voltage and wide inductance range.
- Non-Shielded magnetic circuit design.
- Metallization on core results in secure and reliable mounting.
- Low cost.
- Operating temperature: -40°C ~ +125°C.



### APPLICATIONS

- Ideally used in VTR, OA equipment, Digital camera, LCD television set, notebook PC, etc as DC-DC Converter.

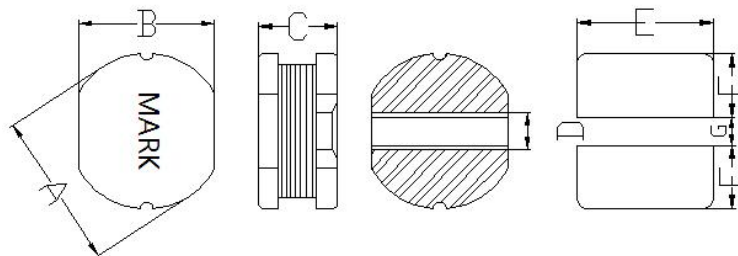
### PRODUCT IDENTIFICATION

ALCD 4532 S 1R0 M T

(1) (2) (3) (4) (5) (6)

- (1) Series name
- (2) Product dimensions
- (3) Feature Type (S:Standard)
- (4) Inductance Value (1R0:1.0uH, 100:10uH, 101:100uH)
- (5) Inductance Tolerance(K:10%, M:20%, N:30%)
- (6) Package(T:Tape&Reel)

### SHAPE AND DIMENSIONS



Unit:mm

| Series   | A        | B       | C       | D       | E       | F       | G       |
|----------|----------|---------|---------|---------|---------|---------|---------|
| ALCD3516 | 3.5±0.3  | 3.0±0.3 | 1.6±0.3 | 1.0Ref. | 3.5Ref. | 1.3Ref. | 1.0Ref. |
| ALCD3521 | 3.5±0.3  | 3.0±0.3 | 2.1±0.3 | 1.0Ref. | 3.5Ref. | 1.3Ref. | 1.0Ref. |
| ALCD4521 | 4.5±0.3  | 4.0±0.3 | 2.1±0.3 | 1.4Ref. | 4.5Ref. | 1.8Ref. | 1.5Ref. |
| ALCD4532 | 4.5±0.3  | 4.0±0.3 | 3.2±0.3 | 1.4Ref. | 4.5Ref. | 1.8Ref. | 1.5Ref. |
| ALCD5825 | 5.8±0.3  | 5.2±0.3 | 2.5±0.3 | 1.6Ref. | 5.8Ref. | 2.2Ref. | 1.6Ref. |
| ALCD5830 | 5.8±0.3  | 5.2±0.3 | 3.0±0.3 | 1.6Ref. | 5.8Ref. | 2.2Ref. | 1.6Ref. |
| ALCD5835 | 5.8±0.3  | 5.2±0.3 | 3.5±0.3 | 1.6Ref. | 5.8Ref. | 2.2Ref. | 1.6Ref. |
| ALCD5845 | 5.8±0.3  | 5.2±0.3 | 4.5±0.3 | 1.6Ref. | 5.8Ref. | 2.2Ref. | 1.6Ref. |
| ALCD7835 | 7.8±0.3  | 7.0±0.3 | 3.5±0.3 | 2.4Ref. | 7.5Ref. | 3.0Ref. | 2.4Ref. |
| ALCD7850 | 7.8±0.3  | 7.0±0.3 | 5.0±0.3 | 2.4Ref. | 7.5Ref. | 3.0Ref. | 2.4Ref. |
| ALCD1040 | 10.0±0.3 | 9.0±0.3 | 4.0±0.3 | 2.9Ref. | 9.5Ref. | 3.7Ref. | 2.5Ref. |
| ALCD1054 | 10.0±0.3 | 9.0±0.3 | 5.4±0.3 | 2.9Ref. | 9.5Ref. | 3.7Ref. | 2.5Ref. |

## SPECIFICATIONS

### ALCD3516 Series

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD3516S1R0MT | 1.0                      | 20               | 100KHz/0.25V   | 0.049                    | 1.7     |
| ALCD3516S1R8MT | 1.8                      | 20               | 100KHz/0.25V   | 0.068                    | 1.5     |
| ALCD3516S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.089                    | 1.4     |
| ALCD3516S2R7MT | 2.7                      | 20               | 100KHz/0.25V   | 0.091                    | 1.3     |
| ALCD3516S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.120                    | 1.1     |
| ALCD3516S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.163                    | 0.95    |
| ALCD3516S5R6MT | 5.6                      | 20               | 100KHz/0.25V   | 0.182                    | 0.9     |
| ALCD3516S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.234                    | 0.85    |
| ALCD3516S8R2MT | 8.2                      | 20               | 100KHz/0.25V   | 0.260                    | 0.8     |
| ALCD3516S100KT | 10                       | 10               | 100KHz/0.25V   | 0.357                    | 0.68    |
| ALCD3516S120KT | 12                       | 10               | 100KHz/0.25V   | 0.377                    | 0.65    |
| ALCD3516S150KT | 15                       | 10               | 100KHz/0.25V   | 0.442                    | 0.58    |
| ALCD3516S180KT | 18                       | 10               | 100KHz/0.25V   | 0.710                    | 0.54    |
| ALCD3516S220KT | 22                       | 10               | 100KHz/0.25V   | 0.850                    | 0.5     |
| ALCD3516S270KT | 27                       | 10               | 100KHz/0.25V   | 0.890                    | 0.45    |
| ALCD3516S330KT | 33                       | 10               | 100KHz/0.25V   | 1.010                    | 0.4     |
| ALCD3516S390KT | 39                       | 10               | 100KHz/0.25V   | 1.110                    | 0.35    |
| ALCD3516S470KT | 47                       | 10               | 100KHz/0.25V   | 1.680                    | 0.3     |
| ALCD3516S820KT | 82                       | 10               | 100KHz/0.25V   | 2.600                    | 0.25    |
| ALCD3516S101KT | 100                      | 10               | 100KHz/0.25V   | 3.050                    | 0.23    |
| ALCD3516S151KT | 150                      | 10               | 100KHz/0.25V   | 4.290                    | 0.2     |
| ALCD3516S221KT | 220                      | 10               | 100KHz/0.25V   | 7.540                    | 0.16    |

### ALCD3521 Series

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD3521SR24NT | 0.24                     | 30               | 100KHz/0.25V   | 0.020                    | 6.00    |
| ALCD3521S1R0MT | 1.0                      | 20               | 100KHz/0.25V   | 0.035                    | 3.50    |
| ALCD3521S1R5MT | 1.5                      | 20               | 100KHz/0.25V   | 0.052                    | 2.60    |
| ALCD3521S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.073                    | 2.30    |
| ALCD3521S2R7MT | 2.7                      | 20               | 100KHz/0.25V   | 0.101                    | 2.10    |
| ALCD3521S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.109                    | 1.90    |
| ALCD3521S3R9MT | 3.9                      | 20               | 100KHz/0.25V   | 0.148                    | 1.60    |
| ALCD3521S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.170                    | 1.50    |
| ALCD3521S5R6MT | 5.6                      | 20               | 100KHz/0.25V   | 0.180                    | 1.40    |
| ALCD3521S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.219                    | 1.20    |
| ALCD3521S8R2MT | 8.2                      | 20               | 100KHz/0.25V   | 0.235                    | 1.10    |
| ALCD3521S100KT | 10                       | 10               | 100KHz/0.25V   | 0.350                    | 1.00    |
| ALCD3521S120KT | 12                       | 10               | 100KHz/0.25V   | 0.390                    | 0.95    |

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD3521S150KT | 15                       | 10               | 100KHz/0.25V   | 0.468                    | 0.90    |
| ALCD3521S180KT | 18                       | 10               | 100KHz/0.25V   | 0.546                    | 0.80    |
| ALCD3521S220KT | 22                       | 10               | 100KHz/0.25V   | 0.650                    | 0.70    |
| ALCD3521S270KT | 27                       | 10               | 100KHz/0.25V   | 0.720                    | 0.65    |
| ALCD3521S330KT | 33                       | 10               | 100KHz/0.25V   | 0.910                    | 0.60    |
| ALCD3521S390KT | 39                       | 10               | 100KHz/0.25V   | 1.050                    | 0.55    |
| ALCD3521S470KT | 47                       | 10               | 100KHz/0.25V   | 1.380                    | 0.50    |
| ALCD3521S560KT | 56                       | 10               | 100KHz/0.25V   | 1.530                    | 0.45    |
| ALCD3521S680KT | 68                       | 10               | 100KHz/0.25V   | 1.800                    | 0.40    |
| ALCD3521S820KT | 82                       | 10               | 100KHz/0.25V   | 2.390                    | 0.35    |
| ALCD3521S101KT | 100                      | 10               | 100KHz/0.25V   | 3.120                    | 0.31    |
| ALCD3521S121KT | 120                      | 10               | 100KHz/0.25V   | 3.300                    | 0.29    |
| ALCD3521S151KT | 150                      | 10               | 100KHz/0.25V   | 3.960                    | 0.27    |
| ALCD3521S181KT | 180                      | 10               | 100KHz/0.25V   | 4.200                    | 0.25    |
| ALCD3521S221KT | 220                      | 10               | 100KHz/0.25V   | 6.000                    | 0.22    |
| ALCD3521S271KT | 270                      | 10               | 100KHz/0.25V   | 6.600                    | 0.20    |
| ALCD3521S331KT | 330                      | 10               | 100KHz/0.25V   | 9.600                    | 0.18    |
| ALCD3521S391KT | 390                      | 10               | 100KHz/0.25V   | 10.920                   | 0.16    |
| ALCD3521S471KT | 470                      | 10               | 100KHz/0.25V   | 13.080                   | 0.15    |
| ALCD3521S561KT | 560                      | 10               | 100KHz/0.25V   | 14.400                   | 0.13    |
| ALCD3521S681KT | 680                      | 10               | 100KHz/0.25V   | 16.800                   | 0.11    |
| ALCD3521S821KT | 820                      | 10               | 100KHz/0.25V   | 24.000                   | 0.10    |
| ALCD3521S271KT | 270                      | 10               | 100KHz/0.25V   | 6.600                    | 0.20    |
| ALCD3521S331KT | 330                      | 10               | 100KHz/0.25V   | 9.600                    | 0.18    |
| ALCD3521S391KT | 390                      | 10               | 100KHz/0.25V   | 10.920                   | 0.16    |
| ALCD3521S471KT | 470                      | 10               | 100KHz/0.25V   | 13.080                   | 0.15    |
| ALCD3521S561KT | 560                      | 10               | 100KHz/0.25V   | 14.400                   | 0.13    |
| ALCD3521S681KT | 680                      | 10               | 100KHz/0.25V   | 16.800                   | 0.11    |
| ALCD3521S821KT | 820                      | 10               | 100KHz/0.25V   | 24.000                   | 0.10    |

**ALCD4521 Series**

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD4521S1R0MT | 1.0                      | 20               | 100KHz/0.25V   | 0.030                    | 2.50    |
| ALCD4521S1R5MT | 1.5                      | 20               | 100KHz/0.25V   | 0.040                    | 1.80    |
| ALCD4521S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.050                    | 1.60    |
| ALCD4521S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.060                    | 1.50    |
| ALCD4521S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.100                    | 1.30    |
| ALCD4521S5R6MT | 5.6                      | 20               | 100KHz/0.25V   | 0.080                    | 1.10    |
| ALCD4521S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.100                    | 1.05    |
| ALCD4521S8R2MT | 8.2                      | 20               | 100KHz/0.25V   | 0.110                    | 1.00    |

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD4521S100KT | 10                       | 10               | 100KHz/0.25V   | 0.170                    | 0.92    |
| ALCD4521S120KT | 12                       | 10               | 100KHz/0.25V   | 0.180                    | 0.82    |
| ALCD4521S150KT | 15                       | 10               | 100KHz/0.25V   | 0.200                    | 0.80    |
| ALCD4521S180KT | 18                       | 10               | 100KHz/0.25V   | 0.250                    | 0.73    |
| ALCD4521S220KT | 22                       | 10               | 100KHz/0.25V   | 0.427                    | 0.70    |
| ALCD4521S330KT | 33                       | 10               | 100KHz/0.25V   | 0.525                    | 0.60    |
| ALCD4521S390KT | 39                       | 10               | 100KHz/0.25V   | 0.654                    | 0.56    |
| ALCD4521S470KT | 47                       | 10               | 100KHz/0.25V   | 0.668                    | 0.54    |
| ALCD4521S560KT | 56                       | 10               | 100KHz/0.25V   | 0.730                    | 0.52    |
| ALCD4521S680KT | 68                       | 10               | 100KHz/0.25V   | 1.360                    | 0.50    |
| ALCD4521S820KT | 82                       | 10               | 100KHz/0.25V   | 1.450                    | 0.48    |
| ALCD4521S101KT | 100                      | 10               | 100KHz/0.25V   | 1.500                    | 0.45    |
| ALCD4521S121KT | 120                      | 10               | 100KHz/0.25V   | 1.530                    | 0.35    |
| ALCD4521S151KT | 150                      | 10               | 100KHz/0.25V   | 2.400                    | 0.34    |
| ALCD4521S181KT | 180                      | 10               | 100KHz/0.25V   | 2.860                    | 0.32    |
| ALCD4521S221KT | 220                      | 10               | 100KHz/0.25V   | 4.100                    | 0.25    |
| ALCD4521S271KT | 270                      | 10               | 100KHz/0.25V   | 5.140                    | 0.24    |
| ALCD4521S331KT | 330                      | 10               | 100KHz/0.25V   | 7.150                    | 0.21    |
| ALCD4521S391KT | 390                      | 10               | 100KHz/0.25V   | 7.430                    | 0.20    |
| ALCD4521S471KT | 470                      | 10               | 100KHz/0.25V   | 8.190                    | 0.18    |
| ALCD4521S681KT | 680                      | 10               | 100KHz/0.25V   | 10.920                   | 0.13    |
| ALCD4521S102KT | 1000                     | 10               | 100KHz/0.25V   | 24.230                   | 0.12    |
| ALCD4521S152KT | 1500                     | 10               | 100KHz/0.25V   | 25.560                   | 0.09    |

**ALCD4532 Series**

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD4532SR10NT | 0.1                      | 30               | 100KHz/0.25V   | 0.010                    | 9.50    |
| ALCD4532SR24MT | 0.24                     | 20               | 100KHz/0.25V   | 0.013                    | 8.50    |
| ALCD4532SR47MT | 0.47                     | 20               | 100KHz/0.25V   | 0.016                    | 7.00    |
| ALCD4532S1R0MT | 1.0                      | 20               | 100KHz/0.25V   | 0.026                    | 5.10    |
| ALCD4532S1R4MT | 1.4                      | 20               | 100KHz/0.25V   | 0.032                    | 4.20    |
| ALCD4532S1R5MT | 1.5                      | 20               | 100KHz/0.25V   | 0.032                    | 4.20    |
| ALCD4532S2R0MT | 2.0                      | 20               | 100KHz/0.25V   | 0.039                    | 3.50    |
| ALCD4532S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.045                    | 3.30    |
| ALCD4532S2R7MT | 2.7                      | 20               | 100KHz/0.25V   | 0.052                    | 3.20    |
| ALCD4532S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.058                    | 3.00    |
| ALCD4532S3R9MT | 3.9                      | 20               | 100KHz/0.25V   | 0.065                    | 2.80    |
| ALCD4532S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.078                    | 2.50    |
| ALCD4532S5R6MT | 5.6                      | 20               | 100KHz/0.25V   | 0.065                    | 1.70    |
| ALCD4532S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.091                    | 1.50    |

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD4532S8R2MT | 8.2                      | 20               | 100KHz/0.25V   | 0.120                    | 1.30    |
| ALCD4532S100KT | 10                       | 10               | 100KHz/0.25V   | 0.140                    | 1.20    |
| ALCD4532S120KT | 12                       | 10               | 100KHz/0.25V   | 0.150                    | 1.10    |
| ALCD4532S130KT | 13                       | 10               | 100KHz/0.25V   | 0.170                    | 1.05    |
| ALCD4532S150KT | 15                       | 10               | 100KHz/0.25V   | 0.185                    | 1.00    |
| ALCD4532S180KT | 18                       | 10               | 100KHz/0.25V   | 0.230                    | 0.90    |
| ALCD4532S220KT | 22                       | 10               | 100KHz/0.25V   | 0.270                    | 0.75    |
| ALCD4532S270KT | 27                       | 10               | 100KHz/0.25V   | 0.331                    | 0.70    |
| ALCD4532S330KT | 33                       | 10               | 100KHz/0.25V   | 0.403                    | 0.65    |
| ALCD4532S390KT | 39                       | 10               | 100KHz/0.25V   | 0.430                    | 0.60    |
| ALCD4532S470KT | 47                       | 10               | 100KHz/0.25V   | 0.530                    | 0.53    |
| ALCD4532S560KT | 56                       | 10               | 100KHz/0.25V   | 0.611                    | 0.50    |
| ALCD4532S680KT | 68                       | 10               | 100KHz/0.25V   | 0.840                    | 0.45    |
| ALCD4532S820KT | 82                       | 10               | 100KHz/0.25V   | 0.880                    | 0.43    |
| ALCD4532S101KT | 100                      | 10               | 100KHz/0.25V   | 1.200                    | 0.40    |
| ALCD4532S121KT | 120                      | 10               | 100KHz/0.25V   | 1.300                    | 0.37    |
| ALCD4532S151KT | 150                      | 10               | 100KHz/0.25V   | 1.600                    | 0.31    |
| ALCD4532S181KT | 180                      | 10               | 100KHz/0.25V   | 2.000                    | 0.28    |
| ALCD4532S221KT | 220                      | 10               | 100KHz/0.25V   | 2.580                    | 0.25    |
| ALCD4532S271KT | 270                      | 10               | 100KHz/0.25V   | 3.050                    | 0.23    |
| ALCD4532S331KT | 330                      | 10               | 100KHz/0.25V   | 3.550                    | 0.21    |
| ALCD4532S391KT | 390                      | 10               | 100KHz/0.25V   | 3.960                    | 0.19    |
| ALCD4532S471KT | 470                      | 10               | 100KHz/0.25V   | 5.400                    | 0.17    |
| ALCD4532S561KT | 560                      | 10               | 100KHz/0.25V   | 5.900                    | 0.16    |
| ALCD4532S681KT | 680                      | 10               | 100KHz/0.25V   | 8.040                    | 0.15    |
| ALCD4532S102KT | 1000                     | 10               | 100KHz/0.25V   | 10.700                   | 0.12    |
| ALCD4532S152KT | 1500                     | 10               | 100KHz/0.25V   | 16.800                   | 0.10    |
| ALCD4532S202KT | 2000                     | 10               | 100KHz/0.25V   | 20.400                   | 0.08    |
| ALCD4532S222KT | 2200                     | 10               | 100KHz/0.25V   | 28.000                   | 0.07    |
| ALCD4532S252KT | 2500                     | 10               | 100KHz/0.25V   | 30.000                   | 0.06    |
| ALCD4532S302KT | 3000                     | 10               | 100KHz/0.25V   | 34.000                   | 0.05    |
| ALCD4532S332KT | 3300                     | 10               | 100KHz/0.25V   | 35.000                   | 0.04    |

**ALCD5825 Series**

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD5825S1R0MT | 1.0                      | 20               | 100KHz/0.25V   | 0.024                    | 5.50    |
| ALCD5825S1R5MT | 1.5                      | 20               | 100KHz/0.25V   | 0.037                    | 4.70    |
| ALCD5825S1R8MT | 1.8                      | 20               | 100KHz/0.25V   | 0.039                    | 4.50    |
| ALCD5825S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.042                    | 4.20    |
| ALCD5825S2R7MT | 2.7                      | 20               | 100KHz/0.25V   | 0.046                    | 3.90    |

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD5825S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.063                    | 3.30    |
| ALCD5825S3R9MT | 3.9                      | 20               | 100KHz/0.25V   | 0.083                    | 3.00    |
| ALCD5825S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.075                    | 2.80    |
| ALCD5825S5R6MT | 5.6                      | 20               | 100KHz/0.25V   | 0.088                    | 2.50    |
| ALCD5825S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.095                    | 2.20    |
| ALCD5825S8R2MT | 8.2                      | 20               | 100KHz/0.25V   | 0.118                    | 2.00    |
| ALCD5825S100KT | 10                       | 10               | 100KHz/0.25V   | 0.151                    | 1.90    |
| ALCD5825S120KT | 12                       | 10               | 100KHz/0.25V   | 0.156                    | 1.70    |
| ALCD5825S150KT | 15                       | 10               | 100KHz/0.25V   | 0.234                    | 1.50    |
| ALCD5825S180KT | 18                       | 10               | 100KHz/0.25V   | 0.240                    | 1.30    |
| ALCD5825S220KT | 22                       | 10               | 100KHz/0.25V   | 0.298                    | 1.20    |
| ALCD5825S270KT | 27                       | 10               | 100KHz/0.25V   | 0.325                    | 1.10    |
| ALCD5825S330KT | 33                       | 10               | 100KHz/0.25V   | 0.408                    | 0.95    |
| ALCD5825S390KT | 39                       | 10               | 100KHz/0.25V   | 0.434                    | 0.92    |
| ALCD5825S470KT | 47                       | 10               | 100KHz/0.25V   | 0.569                    | 0.88    |
| ALCD5825S560KT | 56                       | 10               | 100KHz/0.25V   | 0.638                    | 0.80    |
| ALCD5825S680KT | 68                       | 10               | 100KHz/0.25V   | 0.800                    | 0.75    |
| ALCD5825S820KT | 82                       | 10               | 100KHz/0.25V   | 0.880                    | 0.70    |
| ALCD5825S850KT | 85                       | 10               | 100KHz/0.25V   | 1.050                    | 0.68    |
| ALCD5825S910KT | 91                       | 10               | 100KHz/0.25V   | 1.130                    | 0.65    |
| ALCD5825S101KT | 100                      | 10               | 100KHz/0.25V   | 1.130                    | 0.63    |
| ALCD5825S121KT | 120                      | 10               | 100KHz/0.25V   | 1.330                    | 0.55    |
| ALCD5825S151KT | 150                      | 10               | 100KHz/0.25V   | 1.920                    | 0.45    |
| ALCD5825S181KT | 180                      | 10               | 100KHz/0.25V   | 2.050                    | 0.41    |
| ALCD5825S221KT | 220                      | 10               | 100KHz/0.25V   | 2.500                    | 0.38    |
| ALCD5825S271KT | 270                      | 10               | 100KHz/0.25V   | 3.020                    | 0.35    |
| ALCD5825S331KT | 330                      | 10               | 100KHz/0.25V   | 3.870                    | 0.31    |
| ALCD5825S391KT | 390                      | 10               | 100KHz/0.25V   | 4.470                    | 0.28    |
| ALCD5825S471KT | 470                      | 10               | 100KHz/0.25V   | 5.660                    | 0.26    |
| ALCD5825S561KT | 560                      | 10               | 100KHz/0.25V   | 6.330                    | 0.24    |
| ALCD5825S681KT | 680                      | 10               | 100KHz/0.25V   | 7.530                    | 0.22    |
| ALCD5825S821KT | 820                      | 10               | 100KHz/0.25V   | 9.540                    | 0.20    |
| ALCD5825S102KT | 1000                     | 10               | 100KHz/0.25V   | 14.900                   | 0.18    |
| ALCD5825S132KT | 1300                     | 10               | 100KHz/0.25V   | 18.200                   | 0.15    |
| ALCD5825S202KT | 2000                     | 10               | 100KHz/0.25V   | 28.600                   | 0.13    |
| ALCD5825S222KT | 2200                     | 10               | 100KHz/0.25V   | 34.000                   | 0.12    |
| ALCD5825S252KT | 2500                     | 10               | 100KHz/0.25V   | 36.400                   | 0.11    |

**ALCD5830 Series**

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD5830S1R0MT | 1.0                      | 20               | 100KHz/0.25V   | 0.017                    | 6.20    |
| ALCD5830S1R5MT | 1.5                      | 20               | 100KHz/0.25V   | 0.020                    | 5.60    |
| ALCD5830S1R8MT | 1.8                      | 20               | 100KHz/0.25V   | 0.022                    | 4.90    |
| ALCD5830S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.026                    | 4.60    |
| ALCD5830S2R5MT | 2.5                      | 20               | 100KHz/0.25V   | 0.034                    | 4.30    |
| ALCD5830S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.040                    | 4.10    |
| ALCD5830S3R9MT | 3.9                      | 20               | 100KHz/0.25V   | 0.046                    | 3.70    |
| ALCD5830S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.052                    | 3.30    |
| ALCD5830S5R6MT | 5.6                      | 20               | 100KHz/0.25V   | 0.058                    | 3.10    |
| ALCD5830S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.071                    | 2.80    |
| ALCD5830S8R2MT | 8.2                      | 20               | 100KHz/0.25V   | 0.081                    | 2.50    |
| ALCD5830S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.030                    | 4.60    |
| ALCD5830S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.055                    | 3.30    |
| ALCD5830S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.073                    | 2.80    |
| ALCD5830S100KT | 10                       | 10               | 100KHz/0.25V   | 0.108                    | 2.20    |
| ALCD5830S120KT | 12                       | 10               | 100KHz/0.25V   | 0.126                    | 2.10    |
| ALCD5830S150KT | 15                       | 10               | 100KHz/0.25V   | 0.145                    | 2.00    |
| ALCD5830S180KT | 18                       | 10               | 100KHz/0.25V   | 0.160                    | 1.70    |
| ALCD5830S220KT | 22                       | 10               | 100KHz/0.25V   | 0.225                    | 1.50    |
| ALCD5830S270KT | 27                       | 10               | 100KHz/0.25V   | 0.242                    | 1.40    |
| ALCD5830S330KT | 33                       | 10               | 100KHz/0.25V   | 0.325                    | 1.20    |
| ALCD5830S390KT | 39                       | 10               | 100KHz/0.25V   | 0.369                    | 1.10    |
| ALCD5830S470KT | 47                       | 10               | 100KHz/0.25V   | 0.436                    | 1.00    |
| ALCD5830S560KT | 56                       | 10               | 100KHz/0.25V   | 0.553                    | 0.85    |
| ALCD5830S680KT | 68                       | 10               | 100KHz/0.25V   | 0.628                    | 0.80    |
| ALCD5830S820KT | 82                       | 10               | 100KHz/0.25V   | 0.785                    | 0.75    |
| ALCD5830S101KT | 100                      | 10               | 100KHz/0.25V   | 0.848                    | 0.70    |
| ALCD5830S121KT | 120                      | 10               | 100KHz/0.25V   | 1.030                    | 0.60    |
| ALCD5830S151KT | 150                      | 10               | 100KHz/0.25V   | 1.440                    | 0.55    |
| ALCD5830S201KT | 200                      | 10               | 100KHz/0.25V   | 1.950                    | 0.50    |
| ALCD5830S221KT | 220                      | 10               | 100KHz/0.25V   | 2.080                    | 0.45    |
| ALCD5830S271KT | 270                      | 10               | 100KHz/0.25V   | 2.460                    | 0.40    |
| ALCD5830S331KT | 330                      | 10               | 100KHz/0.25V   | 3.710                    | 0.35    |
| ALCD5830S391KT | 390                      | 10               | 100KHz/0.25V   | 4.240                    | 0.30    |
| ALCD5830S471KT | 470                      | 10               | 100KHz/0.25V   | 4.420                    | 0.28    |
| ALCD5830S561KT | 560                      | 10               | 100KHz/0.25V   | 4.680                    | 0.25    |
| ALCD5830S681KT | 680                      | 10               | 100KHz/0.25V   | 6.420                    | 0.22    |
| ALCD5830S821KT | 820                      | 10               | 100KHz/0.25V   | 7.360                    | 0.20    |
| ALCD5830S102KT | 1000                     | 10               | 100KHz/0.25V   | 9.730                    | 0.17    |
| ALCD5830S472KT | 4700                     | 10               | 100KHz/0.25V   | 50.700                   | 0.11    |



**ALCD5835 Series**

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD5835S1R0MT | 1.0                      | 20               | 100KHz/0.25V   | 0.017                    | 3.70    |
| ALCD5835S1R5MT | 1.5                      | 20               | 100KHz/0.25V   | 0.020                    | 3.50    |
| ALCD5835S1R8MT | 1.8                      | 20               | 100KHz/0.25V   | 0.022                    | 3.00    |
| ALCD5835S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.026                    | 2.85    |
| ALCD5835S2R5MT | 2.5                      | 20               | 100KHz/0.25V   | 0.034                    | 2.70    |
| ALCD5835S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.040                    | 2.40    |
| ALCD5835S3R9MT | 3.9                      | 20               | 100KHz/0.25V   | 0.046                    | 2.25    |
| ALCD5835S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.052                    | 1.90    |
| ALCD5835S5R6MT | 5.6                      | 20               | 100KHz/0.25V   | 0.058                    | 1.88    |
| ALCD5835S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.071                    | 1.87    |
| ALCD5835S8R2MT | 8.2                      | 20               | 100KHz/0.25V   | 0.081                    | 1.82    |
| ALCD5835S1R5MT | 1.5                      | 20               | 100KHz/0.25V   | 0.024                    | 3.50    |
| ALCD5835S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.030                    | 2.85    |
| ALCD5835S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.042                    | 2.40    |
| ALCD5835S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.073                    | 1.87    |
| ALCD5835S100KT | 10                       | 10               | 100KHz/0.25V   | 0.094                    | 1.78    |
| ALCD5835S120KT | 12                       | 10               | 100KHz/0.25V   | 0.126                    | 1.60    |
| ALCD5835S150KT | 15                       | 10               | 100KHz/0.25V   | 0.139                    | 1.58    |
| ALCD5835S180KT | 18                       | 10               | 100KHz/0.25V   | 0.160                    | 1.30    |
| ALCD5835S220KT | 22                       | 10               | 100KHz/0.25V   | 0.192                    | 1.29    |
| ALCD5835S270KT | 27                       | 10               | 100KHz/0.25V   | 0.242                    | 1.10    |
| ALCD5835S330KT | 33                       | 10               | 100KHz/0.25V   | 0.325                    | 0.95    |
| ALCD5835S390KT | 39                       | 10               | 100KHz/0.25V   | 0.369                    | 0.92    |
| ALCD5835S470KT | 47                       | 10               | 100KHz/0.25V   | 0.436                    | 0.82    |
| ALCD5835S560KT | 56                       | 10               | 100KHz/0.25V   | 0.553                    | 0.80    |
| ALCD5835S680KT | 68                       | 10               | 100KHz/0.25V   | 0.628                    | 0.76    |
| ALCD5835S820KT | 82                       | 10               | 100KHz/0.25V   | 0.785                    | 0.67    |
| ALCD5835S101KT | 100                      | 10               | 100KHz/0.25V   | 0.848                    | 0.62    |
| ALCD5835S121KT | 120                      | 10               | 100KHz/0.25V   | 1.030                    | 0.60    |
| ALCD5835S151KT | 150                      | 10               | 100KHz/0.25V   | 1.440                    | 0.48    |
| ALCD5835S181KT | 180                      | 10               | 100KHz/0.25V   | 1.640                    | 0.43    |
| ALCD5835S221KT | 220                      | 10               | 100KHz/0.25V   | 2.080                    | 0.37    |
| ALCD5835S271KT | 270                      | 10               | 100KHz/0.25V   | 2.460                    | 0.33    |
| ALCD5835S331KT | 330                      | 10               | 100KHz/0.25V   | 3.710                    | 0.30    |
| ALCD5835S391KT | 390                      | 10               | 100KHz/0.25V   | 4.240                    | 0.26    |
| ALCD5835S471KT | 470                      | 10               | 100KHz/0.25V   | 4.420                    | 0.24    |
| ALCD5835S561KT | 560                      | 10               | 100KHz/0.25V   | 4.680                    | 0.22    |
| ALCD5835S681KT | 680                      | 10               | 100KHz/0.25V   | 6.420                    | 0.21    |
| ALCD5835S821KT | 820                      | 10               | 100KHz/0.25V   | 7.360                    | 0.18    |
| ALCD5835S102KT | 1000                     | 10               | 100KHz/0.25V   | 9.730                    | 0.17    |



| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD5835S152KT | 1500                     | 10               | 100KHz/0.25V   | 15.000                   | 0.15    |
| ALCD5835S222KT | 2200                     | 10               | 100KHz/0.25V   | 24.700                   | 0.12    |
| ALCD5835S392KT | 3900                     | 10               | 100KHz/0.25V   | 42.000                   | 0.11    |
| ALCD5835S562KT | 5600                     | 10               | 100KHz/0.25V   | 59.000                   | 0.09    |
| ALCD5835S123KT | 12000                    | 10               | 100KHz/0.25V   | 124.000                  | 0.06    |

**ALCD5845 Series**

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD5845SR30NT | 0.3                      | 30               | 100KHz/0.25V   | 0.010                    | 6.00    |
| ALCD5845SR47NT | 0.47                     | 30               | 100KHz/0.25V   | 0.011                    | 5.60    |
| ALCD5845S1R0NT | 1.0                      | 30               | 100KHz/0.25V   | 0.018                    | 5.40    |
| ALCD5845S1R5MT | 1.5                      | 20               | 100KHz/0.25V   | 0.024                    | 4.70    |
| ALCD5845S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.031                    | 3.80    |
| ALCD5845S2R7MT | 2.7                      | 20               | 100KHz/0.25V   | 0.033                    | 3.40    |
| ALCD5845S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.035                    | 3.10    |
| ALCD5845S3R6MT | 3.6                      | 20               | 100KHz/0.25V   | 0.040                    | 3.10    |
| ALCD5845S3R9MT | 3.9                      | 20               | 100KHz/0.25V   | 0.045                    | 2.90    |
| ALCD5845S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.052                    | 2.80    |
| ALCD5845S5R6MT | 5.6                      | 20               | 100KHz/0.25V   | 0.060                    | 2.40    |
| ALCD5845S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.068                    | 2.20    |
| ALCD5845S8R2MT | 8.2                      | 20               | 100KHz/0.25V   | 0.076                    | 2.00    |
| ALCD5845S100KT | 10                       | 10               | 100KHz/0.25V   | 0.065                    | 1.80    |
| ALCD5845S120KT | 12                       | 10               | 100KHz/0.25V   | 0.085                    | 1.60    |
| ALCD5845S150KT | 15                       | 10               | 100KHz/0.25V   | 0.096                    | 1.45    |
| ALCD5845S180KT | 18                       | 10               | 100KHz/0.25V   | 0.107                    | 1.40    |
| ALCD5845S220KT | 22                       | 10               | 100KHz/0.25V   | 0.143                    | 1.30    |
| ALCD5845S270KT | 27                       | 10               | 100KHz/0.25V   | 0.169                    | 1.10    |
| ALCD5845S330KT | 33                       | 10               | 100KHz/0.25V   | 0.208                    | 1.00    |
| ALCD5845S390KT | 39                       | 10               | 100KHz/0.25V   | 0.215                    | 0.95    |
| ALCD5845S470KT | 47                       | 10               | 100KHz/0.25V   | 0.315                    | 0.90    |
| ALCD5845S500KT | 50                       | 10               | 100KHz/0.25V   | 0.360                    | 0.87    |
| ALCD5845S560KT | 56                       | 10               | 100KHz/0.25V   | 0.377                    | 0.85    |
| ALCD5845S680KT | 68                       | 10               | 100KHz/0.25V   | 0.415                    | 0.75    |
| ALCD5845S820KT | 82                       | 10               | 100KHz/0.25V   | 0.468                    | 0.68    |
| ALCD5845S101KT | 100                      | 10               | 100KHz/0.25V   | 0.611                    | 0.63    |
| ALCD5845S121KT | 120                      | 10               | 100KHz/0.25V   | 0.754                    | 0.53    |
| ALCD5845S151KT | 150                      | 10               | 100KHz/0.25V   | 0.845                    | 0.50    |
| ALCD5845S181KT | 180                      | 10               | 100KHz/0.25V   | 0.975                    | 0.48    |
| ALCD5845S221KT | 220                      | 10               | 100KHz/0.25V   | 1.250                    | 0.42    |
| ALCD5845S271KT | 270                      | 10               | 100KHz/0.25V   | 1.440                    | 0.40    |

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD5845S331KT | 330                      | 10               | 100KHz/0.25V   | 1.680                    | 0.35    |
| ALCD5845S391KT | 390                      | 10               | 100KHz/0.25V   | 2.600                    | 0.30    |
| ALCD5845S471KT | 470                      | 10               | 100KHz/0.25V   | 2.520                    | 0.28    |
| ALCD5845S561KT | 560                      | 10               | 100KHz/0.25V   | 3.020                    | 0.24    |
| ALCD5845S681KT | 680                      | 10               | 100KHz/0.25V   | 3.500                    | 0.23    |
| ALCD5845S801KT | 800                      | 10               | 100KHz/0.25V   | 4.700                    | 0.22    |
| ALCD5845S821KT | 820                      | 10               | 100KHz/0.25V   | 4.800                    | 0.21    |
| ALCD5845S102KT | 1000                     | 10               | 100KHz/0.25V   | 6.000                    | 0.20    |
| ALCD5845S122KT | 1200                     | 10               | 100KHz/0.25V   | 6.400                    | 0.17    |
| ALCD5845S152KT | 1500                     | 10               | 100KHz/0.25V   | 8.800                    | 0.16    |
| ALCD5845S202KT | 2000                     | 10               | 100KHz/0.25V   | 12.600                   | 0.13    |
| ALCD5845S222KT | 2200                     | 10               | 100KHz/0.25V   | 13.400                   | 0.12    |
| ALCD5845S252KT | 2500                     | 10               | 100KHz/0.25V   | 14.000                   | 0.11    |
| ALCD5845S302KT | 3000                     | 10               | 100KHz/0.25V   | 16.200                   | 0.10    |
| ALCD5845S332KT | 3300                     | 10               | 100KHz/0.25V   | 17.200                   | 0.10    |
| ALCD5845S352KT | 3500                     | 10               | 100KHz/0.25V   | 18.900                   | 0.09    |
| ALCD5845S402KT | 4000                     | 10               | 100KHz/0.25V   | 23.000                   | 0.09    |
| ALCD5845S472KT | 4700                     | 10               | 100KHz/0.25V   | 25.200                   | 0.08    |
| ALCD5845S562KT | 5600                     | 10               | 100KHz/0.25V   | 31.200                   | 0.07    |
| ALCD5845S103KT | 10000                    | 10               | 100KHz/0.25V   | 59.800                   | 0.04    |

**ALCD7835 Series**

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD7835S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.021                    | 5.20    |
| ALCD7835S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.026                    | 4.50    |
| ALCD7835S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.033                    | 3.50    |
| ALCD7835S100KT | 10                       | 10               | 100KHz/0.25V   | 0.064                    | 2.20    |
| ALCD7835S120KT | 12                       | 10               | 100KHz/0.25V   | 0.073                    | 2.00    |
| ALCD7835S150KT | 15                       | 10               | 100KHz/0.25V   | 0.092                    | 1.90    |
| ALCD7835S180KT | 18                       | 10               | 100KHz/0.25V   | 0.110                    | 1.75    |
| ALCD7835S220KT | 22                       | 10               | 100KHz/0.25V   | 0.130                    | 1.65    |
| ALCD7835S270KT | 27                       | 10               | 100KHz/0.25V   | 0.150                    | 1.55    |
| ALCD7835S330KT | 33                       | 10               | 100KHz/0.25V   | 0.188                    | 1.45    |
| ALCD7835S390KT | 39                       | 10               | 100KHz/0.25V   | 0.220                    | 1.30    |
| ALCD7835S470KT | 47                       | 10               | 100KHz/0.25V   | 0.273                    | 1.15    |
| ALCD7835S560KT | 56                       | 10               | 100KHz/0.25V   | 0.320                    | 1.00    |
| ALCD7835S680KT | 68                       | 10               | 100KHz/0.25V   | 0.364                    | 0.90    |
| ALCD7835S820KT | 82                       | 10               | 100KHz/0.25V   | 0.460                    | 0.85    |
| ALCD7835S101KT | 100                      | 10               | 100KHz/0.25V   | 0.546                    | 0.80    |
| ALCD7835S121KT | 120                      | 10               | 100KHz/0.25V   | 0.590                    | 0.70    |

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD7835S151KT | 150                      | 10               | 100KHz/0.25V   | 0.750                    | 0.65    |
| ALCD7835S181KT | 180                      | 10               | 100KHz/0.25V   | 1.020                    | 0.62    |
| ALCD7835S221KT | 220                      | 10               | 100KHz/0.25V   | 1.100                    | 0.58    |
| ALCD7835S271KT | 270                      | 10               | 100KHz/0.25V   | 1.310                    | 0.52    |
| ALCD7835S331KT | 330                      | 10               | 100KHz/0.25V   | 1.560                    | 0.48    |
| ALCD7835S391KT | 390                      | 10               | 100KHz/0.25V   | 1.850                    | 0.45    |
| ALCD7835S471KT | 470                      | 10               | 100KHz/0.25V   | 2.200                    | 0.40    |
| ALCD7835S561KT | 560                      | 10               | 100KHz/0.25V   | 2.800                    | 0.32    |
| ALCD7835S681KT | 680                      | 10               | 100KHz/0.25V   | 3.700                    | 0.30    |
| ALCD7835S821KT | 820                      | 10               | 100KHz/0.25V   | 4.800                    | 0.28    |
| ALCD7835S102KT | 1000                     | 10               | 100KHz/0.25V   | 5.460                    | 0.23    |
| ALCD7835S352KT | 3500                     | 10               | 100KHz/0.25V   | 18.000                   | 0.14    |

**ALCD7850 Series**

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD7850S1R0MT | 1                        | 20               | 100KHz/0.25V   | 0.013                    | 7.50    |
| ALCD7850S1R5MT | 1.5                      | 20               | 100KHz/0.25V   | 0.016                    | 7.20    |
| ALCD7850S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.018                    | 7.00    |
| ALCD7850S2R7MT | 2.7                      | 20               | 100KHz/0.25V   | 0.020                    | 6.70    |
| ALCD7850S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.022                    | 6.20    |
| ALCD7850S3R9MT | 3.9                      | 20               | 100KHz/0.25V   | 0.025                    | 5.80    |
| ALCD7850S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.030                    | 5.40    |
| ALCD7850S5R6MT | 5.6                      | 20               | 100KHz/0.25V   | 0.037                    | 4.90    |
| ALCD7850S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.040                    | 4.50    |
| ALCD7850S8R2MT | 8.2                      | 20               | 100KHz/0.25V   | 0.051                    | 4.00    |
| ALCD7850S100KT | 10                       | 10               | 100KHz/0.25V   | 0.057                    | 3.50    |
| ALCD7850S120KT | 12                       | 10               | 100KHz/0.25V   | 0.065                    | 3.30    |
| ALCD7850S150KT | 15                       | 10               | 100KHz/0.25V   | 0.082                    | 3.20    |
| ALCD7850S180KT | 18                       | 10               | 100KHz/0.25V   | 0.100                    | 3.00    |
| ALCD7850S220KT | 22                       | 10               | 100KHz/0.25V   | 0.111                    | 2.70    |
| ALCD7850S270KT | 27                       | 10               | 100KHz/0.25V   | 0.130                    | 2.50    |
| ALCD7850S330KT | 33                       | 10               | 100KHz/0.25V   | 0.156                    | 2.30    |
| ALCD7850S390KT | 39                       | 10               | 100KHz/0.25V   | 0.189                    | 2.00    |
| ALCD7850S470KT | 47                       | 10               | 100KHz/0.25V   | 0.176                    | 1.30    |
| ALCD7850S560KT | 56                       | 10               | 100KHz/0.25V   | 0.208                    | 1.25    |
| ALCD7850S680KT | 68                       | 10               | 100KHz/0.25V   | 0.238                    | 1.05    |
| ALCD7850S820KT | 82                       | 10               | 100KHz/0.25V   | 0.299                    | 0.95    |
| ALCD7850S101KT | 100                      | 10               | 100KHz/0.25V   | 0.370                    | 0.80    |
| ALCD7850S121KT | 120                      | 10               | 100KHz/0.25V   | 0.442                    | 0.75    |
| ALCD7850S151KT | 150                      | 10               | 100KHz/0.25V   | 0.520                    | 0.72    |

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD7850S181KT | 180                      | 10               | 100KHz/0.25V   | 0.598                    | 0.65    |
| ALCD7850S221KT | 220                      | 10               | 100KHz/0.25V   | 0.793                    | 0.60    |
| ALCD7850S271KT | 270                      | 10               | 100KHz/0.25V   | 0.988                    | 0.55    |
| ALCD7850S281KT | 280                      | 10               | 100KHz/0.25V   | 1.020                    | 0.50    |
| ALCD7850S331KT | 330                      | 10               | 100KHz/0.25V   | 1.130                    | 0.45    |
| ALCD7850S391KT | 390                      | 10               | 100KHz/0.25V   | 1.300                    | 0.42    |
| ALCD7850S401KT | 400                      | 10               | 100KHz/0.25V   | 1.430                    | 0.40    |
| ALCD7850S471KT | 470                      | 10               | 100KHz/0.25V   | 1.680                    | 0.39    |
| ALCD7850S561KT | 560                      | 10               | 100KHz/0.25V   | 1.900                    | 0.37    |
| ALCD7850S601KT | 600                      | 10               | 100KHz/0.25V   | 2.180                    | 0.35    |
| ALCD7850S681KT | 680                      | 10               | 100KHz/0.25V   | 2.470                    | 0.34    |
| ALCD7850S761KT | 760                      | 10               | 100KHz/0.25V   | 2.600                    | 0.33    |
| ALCD7850S801KT | 800                      | 10               | 100KHz/0.25V   | 2.700                    | 0.32    |
| ALCD7850S821KT | 820                      | 10               | 100KHz/0.25V   | 2.760                    | 0.31    |
| ALCD7850S102KT | 1000                     | 10               | 100KHz/0.25V   | 3.600                    | 0.30    |
| ALCD7850S122KT | 1200                     | 10               | 100KHz/0.25V   | 4.380                    | 0.25    |
| ALCD7850S152KT | 1500                     | 10               | 100KHz/0.25V   | 5.520                    | 0.23    |
| ALCD7850S202KT | 2000                     | 10               | 100KHz/0.25V   | 6.800                    | 0.21    |
| ALCD7850S222KT | 2200                     | 10               | 100KHz/0.25V   | 7.500                    | 0.19    |
| ALCD7850S232KT | 2300                     | 10               | 100KHz/0.25V   | 8.300                    | 0.18    |
| ALCD7850S302KT | 3000                     | 10               | 100KHz/0.25V   | 9.600                    | 0.17    |
| ALCD7850S332KT | 3300                     | 10               | 100KHz/0.25V   | 11.500                   | 0.16    |
| ALCD7850S402KT | 4000                     | 10               | 100KHz/0.25V   | 13.500                   | 0.15    |
| ALCD7850S472KT | 4700                     | 10               | 100KHz/0.25V   | 16.200                   | 0.14    |
| ALCD7850S502KT | 5000                     | 10               | 100KHz/0.25V   | 18.000                   | 0.12    |
| ALCD7850S822KT | 8200                     | 10               | 100KHz/0.25V   | 33.000                   | 0.11    |
| ALCD7850S333KT | 33000                    | 10               | 100KHz/0.25V   | 108.000                  | 0.04    |

**ALCD1040 Series**

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD1040S1R0MT | 1.0                      | 20               | 100KHz/0.25V   | 0.008                    | 8.00    |
| ALCD1040S1R2MT | 1.2                      | 20               | 100KHz/0.25V   | 0.010                    | 7.50    |
| ALCD1040S1R5MT | 1.5                      | 20               | 100KHz/0.25V   | 0.012                    | 7.20    |
| ALCD1040S2R2MT | 2.2                      | 20               | 100KHz/0.25V   | 0.013                    | 6.80    |
| ALCD1040S3R3MT | 3.3                      | 20               | 100KHz/0.25V   | 0.019                    | 5.60    |
| ALCD1040S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.028                    | 4.80    |
| ALCD1040S5R6MT | 5.6                      | 20               | 100KHz/0.25V   | 0.031                    | 3.90    |
| ALCD1040S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.033                    | 3.50    |
| ALCD1040S8R2MT | 8.2                      | 20               | 100KHz/0.25V   | 0.039                    | 3.30    |
| ALCD1040S100MT | 10                       | 20               | 100KHz/0.25V   | 0.047                    | 3.00    |

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD1040S150MT | 15                       | 20               | 100KHz/0.25V   | 0.067                    | 2.80    |
| ALCD1040S180MT | 18                       | 20               | 100KHz/0.25V   | 0.081                    | 2.50    |
| ALCD1040S220MT | 22                       | 20               | 100KHz/0.25V   | 0.093                    | 2.20    |
| ALCD1040S330MT | 33                       | 20               | 100KHz/0.25V   | 0.125                    | 1.70    |
| ALCD1040S390MT | 39                       | 20               | 100KHz/0.25V   | 0.151                    | 1.50    |
| ALCD1040S470MT | 47                       | 20               | 100KHz/0.25V   | 0.173                    | 1.30    |
| ALCD1040S560MT | 56                       | 20               | 100KHz/0.25V   | 0.198                    | 1.10    |
| ALCD1040S680MT | 68                       | 20               | 100KHz/0.25V   | 0.247                    | 1.00    |
| ALCD1040S820MT | 82                       | 20               | 100KHz/0.25V   | 0.299                    | 0.95    |
| ALCD1040S101KT | 100                      | 10               | 100KHz/0.25V   | 0.351                    | 0.85    |
| ALCD1040S121KT | 120                      | 10               | 100KHz/0.25V   | 0.429                    | 0.80    |
| ALCD1040S151KT | 150                      | 10               | 100KHz/0.25V   | 0.533                    | 0.75    |
| ALCD1040S181KT | 180                      | 10               | 100KHz/0.25V   | 0.624                    | 0.72    |
| ALCD1040S221KT | 220                      | 10               | 100KHz/0.25V   | 0.728                    | 0.68    |
| ALCD1040S331KT | 330                      | 10               | 100KHz/0.25V   | 1.274                    | 0.60    |
| ALCD1040S391KT | 390                      | 10               | 100KHz/0.25V   | 1.560                    | 0.56    |
| ALCD1040S471KT | 470                      | 10               | 100KHz/0.25V   | 1.690                    | 0.50    |
| ALCD1040S561KT | 560                      | 10               | 100KHz/0.25V   | 2.040                    | 0.45    |
| ALCD1040S681KT | 680                      | 10               | 100KHz/0.25V   | 2.470                    | 0.40    |
| ALCD1040S821KT | 820                      | 10               | 100KHz/0.25V   | 2.820                    | 0.35    |

**ALCD1054 Series**

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD1054S4R7MT | 4.7                      | 20               | 100KHz/0.25V   | 0.027                    | 6.50    |
| ALCD1054S6R8MT | 6.8                      | 20               | 100KHz/0.25V   | 0.029                    | 4.50    |
| ALCD1054S100KT | 10                       | 10               | 100KHz/0.25V   | 0.039                    | 4.20    |
| ALCD1054S220KT | 22                       | 10               | 100KHz/0.25V   | 0.070                    | 2.80    |
| ALCD1054S270KT | 27                       | 10               | 100KHz/0.25V   | 0.084                    | 2.40    |
| ALCD1054S330KT | 33                       | 10               | 100KHz/0.25V   | 0.092                    | 2.35    |
| ALCD1054S390KT | 39                       | 10               | 100KHz/0.25V   | 0.125                    | 2.20    |
| ALCD1054S470KT | 47                       | 10               | 100KHz/0.25V   | 0.144                    | 2.00    |
| ALCD1054S560KT | 56                       | 10               | 100KHz/0.25V   | 0.159                    | 1.80    |
| ALCD1054S680KT | 68                       | 10               | 100KHz/0.25V   | 0.200                    | 1.60    |
| ALCD1054S750KT | 75                       | 10               | 100KHz/0.25V   | 0.220                    | 1.50    |
| ALCD1054S820KT | 82                       | 10               | 100KHz/0.25V   | 0.230                    | 1.40    |
| ALCD1054S101KT | 100                      | 10               | 100KHz/0.25V   | 0.260                    | 1.30    |
| ALCD1054S121KT | 120                      | 10               | 100KHz/0.25V   | 0.350                    | 1.20    |
| ALCD1054S151KT | 150                      | 10               | 100KHz/0.25V   | 0.400                    | 1.05    |
| ALCD1054S171KT | 170                      | 10               | 100KHz/0.25V   | 0.450                    | 0.98    |
| ALCD1054S181KT | 180                      | 10               | 100KHz/0.25V   | 0.490                    | 0.95    |

| Part Number    | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Condition | DCR Max.<br>( $\Omega$ ) | Isat(A) |
|----------------|--------------------------|------------------|----------------|--------------------------|---------|
| ALCD1054S201KT | 200                      | 10               | 100KHz/0.25V   | 0.545                    | 0.92    |
| ALCD1054S221KT | 220                      | 10               | 100KHz/0.25V   | 0.575                    | 0.90    |
| ALCD1054S271KT | 270                      | 10               | 100KHz/0.25V   | 0.695                    | 0.85    |
| ALCD1054S331KT | 330                      | 10               | 100KHz/0.25V   | 0.845                    | 0.75    |
| ALCD1054S391KT | 390                      | 10               | 100KHz/0.25V   | 1.040                    | 0.68    |
| ALCD1054S471KT | 470                      | 10               | 100KHz/0.25V   | 1.180                    | 0.60    |
| ALCD1054S601KT | 600                      | 10               | 100KHz/0.25V   | 1.550                    | 0.54    |
| ALCD1054S681KT | 680                      | 10               | 100KHz/0.25V   | 1.680                    | 0.52    |
| ALCD1054S821KT | 820                      | 10               | 100KHz/0.25V   | 1.950                    | 0.46    |
| ALCD1054S102KT | 1000                     | 10               | 100KHz/0.25V   | 2.300                    | 0.43    |
| ALCD1054S122KT | 1200                     | 10               | 100KHz/0.25V   | 3.100                    | 0.40    |
| ALCD1054S152KT | 1500                     | 10               | 100KHz/0.25V   | 3.400                    | 0.35    |
| ALCD1054S222KT | 2200                     | 10               | 100KHz/0.25V   | 5.400                    | 0.30    |
| ALCD1054S302KT | 3000                     | 10               | 100KHz/0.25V   | 7.800                    | 0.28    |
| ALCD1054S332KT | 3300                     | 10               | 100KHz/0.25V   | 9.100                    | 0.25    |

**Note:**

Isat: DC current at which the inductance drops approximate 10% from its value without current.