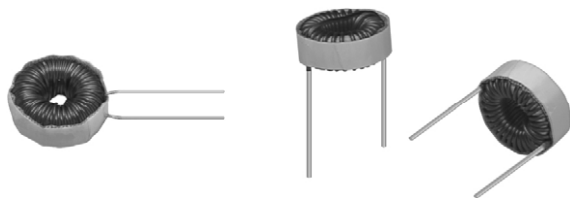


# Vertical and Horizontal Mount, Through-Hole Toroid Inductors, High Temperature 125 °C, Radial Leaded



## APPLICATION

- Switching power supplies
- EMI / RFI filtering
- output chokes

## FEATURES

- Seven sizes available from 16.5 mm to 67.6 mm (dia.)
- Wide range of inductance and current ratings
- Toroid design reduces EMI
- Vertical or horizontal mounting options <sup>(1)</sup>
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

## Note

<sup>(1)</sup> For horizontal mounting configuration, replace 1U code in the part number with 2U

| DIMENSIONS in inches [millimeters]     |                           |                         |                              |                               |                                          |                           |                         |                              |                               |
|----------------------------------------|---------------------------|-------------------------|------------------------------|-------------------------------|------------------------------------------|---------------------------|-------------------------|------------------------------|-------------------------------|
| VERTICAL MOUNT<br>(MOUNTING CODE - 1U) |                           |                         |                              |                               | HORIZONTAL MOUNT<br>(MOUNTING CODE - 2U) |                           |                         |                              |                               |
|                                        |                           |                         |                              |                               |                                          |                           |                         |                              |                               |
| MODEL                                  | DIAMETER<br>(D)<br>(max.) | HEIGHT<br>(H)<br>(max.) | NOM. LEAD<br>SPACING<br>(Ls) | NOM. LEAD<br>DIAMETER<br>(Ld) | MODEL                                    | DIAMETER<br>(D)<br>(max.) | HEIGHT<br>(H)<br>(max.) | NOM. LEAD<br>SPACING<br>(Ls) | NOM. LEAD<br>DIAMETER<br>(Ld) |
| TJ3                                    | 0.65<br>[16.5]            | 0.30<br>[7.6]           | 0.26 ± 0.04<br>[6.60 ± 1.02] | see TJ3 data                  | TJ3                                      | 0.66<br>[16.8]            | 0.32<br>[8.1]           | 0.58 ± 0.08<br>[14.7 ± 2.03] | see TJ3 data                  |
| TJ4                                    | 0.88<br>[22.4]            | 0.40<br>[10.2]          | 0.31 ± 0.09<br>[7.87 ± 2.29] | see TJ4 data                  | TJ4                                      | 0.88<br>[22.4]            | 0.40<br>[10.2]          | 0.78 ± 0.10<br>[19.8 ± 2.54] | see TJ4 data                  |
| TJ5                                    | 1.00<br>[25.4]            | 0.45<br>[11.4]          | 0.37 ± 0.08<br>[9.40 ± 2.03] | see TJ5 data                  | TJ5                                      | 1.00<br>[25.4]            | 0.45<br>[11.4]          | 0.90 ± 0.10<br>[22.9 ± 2.54] | see TJ5 data                  |
| TJ6                                    | 1.38<br>[35.1]            | 0.83<br>[21.1]          | 0.73 ± 0.10<br>[18.5 ± 2.54] | see TJ6 data                  | TJ6                                      | 1.38<br>[35.1]            | 0.83<br>[21.1]          | 1.22 ± 0.16<br>[31.0 ± 4.06] | see TJ6 data                  |
| TJ7                                    | 1.65<br>[41.9]            | 0.75<br>[19.1]          | 0.62 ± 0.13<br>[15.8 ± 3.30] | see TJ7 data                  | TJ7                                      | 1.65<br>[41.9]            | 0.75<br>[19.1]          | 1.48 ± 0.17<br>[37.6 ± 4.32] | see TJ7 data                  |
| TJ8                                    | 1.92<br>[48.8]            | 1.00<br>[25.4]          | 0.82 ± 0.18<br>[20.8 ± 4.57] | see TJ8 data                  | TJ8                                      | 1.94<br>[49.3]            | 1.00<br>[25.4]          | 1.76 ± 0.18<br>[44.7 ± 4.57] | see TJ8 data                  |
| TJ9                                    | 2.66<br>[67.6]            | 1.42<br>[36.1]          | 1.25 ± 0.17<br>[31.8 ± 4.32] | see TJ9 data                  | TJ9                                      | 2.72<br>[69.1]            | 1.42<br>[36.1]          | 2.49 ± 0.23<br>[63.2 ± 5.84] | see TJ9 data                  |

## Notes

- On larger units and units with finer wire, additional mechanical mounting is recommended.
- <sup>(2)</sup> Leads stripped to within 0.062" [1.58 mm] of the coil.

**ENVIRONMENTAL PERFORMANCE**

| TEST                         | CONDITIONS        | SPECIFICATIONS          |
|------------------------------|-------------------|-------------------------|
| Thermal Shock                | Test condition B1 | MIL-STD-202, method 107 |
| Resistance to Soldering Heat | -                 | MIL-STD-202, method 210 |
| Solderability                | -                 | MIL-STD-202, method 208 |

**ELECTRICAL SPECIFICATION RANGES**

| MODEL | INDUCTANCE RANGE<br>( $\mu$ H) <sup>(1)</sup> | DC RESISTANCE RANGE<br>( $\Omega$ ) <sup>(2)</sup> | RATED CURRENT RANGE<br>(A) <sup>(3)</sup> |
|-------|-----------------------------------------------|----------------------------------------------------|-------------------------------------------|
| TJ3   | 1.2 to 1500                                   | 0.006 to 1.476                                     | 10.0 to 0.5                               |
| TJ4   | 1.2 to 1500                                   | 0.006 to 0.952                                     | 10.7 to 0.9                               |
| TJ5   | 1.2 to 1500                                   | 0.006 to 0.539                                     | 10.1 to 1.3                               |
| TJ6   | 1.2 to 2700                                   | 0.004 to 0.499                                     | 16.0 to 2.0                               |
| TJ7   | 1.2 to 2700                                   | 0.005 to 0.359                                     | 16.0 to 2.7                               |
| TJ8   | 1.5 to 3900                                   | 0.005 to 0.304                                     | 18.5 to 3.2                               |
| TJ9   | 1.5 to 5600                                   | 0.004 to 0.224                                     | 20.0 to 5.0                               |

**Notes**

- Operating temperature range: -55 °C to +125 °C
- <sup>(3)</sup> Measured at 0.25 V<sub>RMS</sub> at 10 kHz
- <sup>(4)</sup> DC resistance measured at + 25 °C  $\pm$  5 °C
- <sup>(5)</sup> Maximum continuous operating current based on a calculated temperature rise of 40 °C

**STANDARD ELECTRICAL SPECIFICATIONS in inches [millimeters]**

| PART NUMBER | IND. ( $\mu$ H) | TOL. (%) | DCR NOM. ( $\Omega$ ) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA ( $\mu$ H) | INDUCTANCE SHIFT WITH DC CURRENT <sup>(1)</sup> |                      |                |                      |                |                      |                |                      | LEAD DIAMETER "A" |
|-------------|-----------------|----------|-----------------------|----------------------|-------------------------------|-------------------------------------------------|----------------------|----------------|----------------------|----------------|----------------------|----------------|----------------------|-------------------|
|             |                 |          |                       |                      |                               | 10 % DRO P (A)                                  | IND. MIN. ( $\mu$ H) | 20 % DRO P (A) | IND. MIN. ( $\mu$ H) | 30 % DRO P (A) | IND. MIN. ( $\mu$ H) | 40 % DRO P (A) | IND. MIN. ( $\mu$ H) |                   |
| TJ31UEB1R2M | 1.2             | $\pm$ 20 | 0.006                 | 10.0                 | 1.19                          | 5.50                                            | 0.91                 | 8.88           | 0.81                 | 12.69          | 0.71                 | 16.50          | 0.61                 | 0.032 [0.813]     |
| TJ31UEB1R5M | 1.5             | $\pm$ 20 | 0.006                 | 9.5                  | 1.62                          | 4.71                                            | 1.24                 | 7.62           | 1.10                 | 10.88          | 0.96                 | 14.14          | 0.82                 | 0.032 [0.813]     |
| TJ31UEB2R2L | 2.2             | $\pm$ 15 | 0.007                 | 9.0                  | 2.11                          | 4.13                                            | 1.62                 | 6.66           | 1.44                 | 9.52           | 1.26                 | 12.38          | 1.08                 | 0.032 [0.813]     |
| TJ31UEB2R7L | 2.7             | $\pm$ 15 | 0.008                 | 8.4                  | 2.67                          | 3.67                                            | 2.04                 | 5.92           | 1.82                 | 8.46           | 1.59                 | 11.00          | 1.36                 | 0.032 [0.813]     |
| TJ31UEB3R3L | 3.3             | $\pm$ 15 | 0.008                 | 8.2                  | 3.30                          | 3.30                                            | 2.52                 | 5.33           | 2.24                 | 7.62           | 1.96                 | 9.90           | 1.68                 | 0.032 [0.813]     |
| TJ31UEB3R9L | 3.9             | $\pm$ 15 | 0.009                 | 7.9                  | 3.99                          | 3.00                                            | 3.05                 | 4.85           | 2.72                 | 6.92           | 2.38                 | 9.00           | 2.04                 | 0.032 [0.813]     |
| TJ31UEB4R7L | 4.7             | $\pm$ 15 | 0.010                 | 7.5                  | 4.75                          | 2.75                                            | 3.64                 | 4.44           | 3.23                 | 6.35           | 2.83                 | 8.25           | 2.42                 | 0.032 [0.813]     |
| TJ31UEB5R6L | 5.6             | $\pm$ 15 | 0.011                 | 7.3                  | 5.58                          | 2.54                                            | 4.27                 | 4.10           | 3.79                 | 5.86           | 3.32                 | 7.62           | 2.84                 | 0.032 [0.813]     |
| TJ31UEB6R8L | 6.8             | $\pm$ 15 | 0.011                 | 7.1                  | 6.47                          | 2.36                                            | 4.95                 | 3.81           | 4.40                 | 5.44           | 3.85                 | 7.07           | 3.30                 | 0.032 [0.813]     |
| TJ31UEB8R2L | 8.2             | $\pm$ 15 | 0.013                 | 6.6                  | 8.45                          | 2.06                                            | 6.46                 | 3.33           | 5.74                 | 4.76           | 5.03                 | 6.19           | 4.31                 | 0.032 [0.813]     |
| TJ31UEB100L | 10.0            | $\pm$ 15 | 0.013                 | 6.5                  | 9.54                          | 1.94                                            | 7.30                 | 3.14           | 6.49                 | 4.48           | 5.67                 | 5.82           | 4.86                 | 0.032 [0.813]     |
| TJ31UEB120L | 12.0            | $\pm$ 15 | 0.015                 | 6.1                  | 11.91                         | 1.74                                            | 9.11                 | 2.81           | 8.10                 | 4.01           | 7.09                 | 5.21           | 6.08                 | 0.032 [0.813]     |
| TJ31UEB150L | 15.0            | $\pm$ 15 | 0.016                 | 5.9                  | 14.55                         | 1.57                                            | 11.13                | 2.54           | 9.90                 | 3.63           | 8.66                 | 4.71           | 7.42                 | 0.032 [0.813]     |
| TJ31UEB180L | 18.0            | $\pm$ 15 | 0.017                 | 5.6                  | 17.46                         | 1.43                                            | 13.35                | 2.32           | 11.87                | 3.31           | 10.39                | 4.30           | 8.90                 | 0.032 [0.813]     |
| TJ31UEB220L | 22.0            | $\pm$ 15 | 0.024                 | 4.6                  | 22.31                         | 1.27                                            | 17.07                | 2.05           | 15.17                | 2.93           | 13.27                | 3.81           | 11.38                | 0.029 [0.737]     |
| TJ31UEB270L | 27.0            | $\pm$ 15 | 0.026                 | 4.4                  | 27.75                         | 1.14                                            | 21.23                | 1.84           | 18.87                | 2.63           | 16.51                | 3.41           | 14.15                | 0.029 [0.737]     |
| TJ31UEB330L | 33.0            | $\pm$ 15 | 0.029                 | 4.3                  | 33.79                         | 1.03                                            | 25.85                | 1.67           | 22.98                | 2.38           | 20.11                | 3.09           | 17.23                | 0.029 [0.737]     |
| TJ31UEB390L | 39.0            | $\pm$ 15 | 0.038                 | 3.7                  | 38.15                         | 0.97                                            | 29.18                | 1.57           | 25.94                | 2.24           | 22.70                | 2.91           | 19.46                | 0.025 [0.635]     |
| TJ31UEB470L | 47.0            | $\pm$ 15 | 0.043                 | 3.5                  | 47.65                         | 0.87                                            | 36.45                | 1.40           | 32.40                | 2.00           | 28.35                | 2.61           | 24.30                | 0.025 [0.635]     |
| TJ31UEB560L | 56.0            | $\pm$ 15 | 0.057                 | 3.1                  | 55.47                         | 0.80                                            | 42.44                | 1.30           | 37.72                | 1.86           | 33.01                | 2.41           | 28.29                | 0.023 [0.584]     |
| TJ31UEB680L | 68.0            | $\pm$ 15 | 0.063                 | 3.0                  | 66.83                         | 0.73                                            | 51.12                | 1.18           | 45.44                | 1.69           | 39.76                | 2.20           | 34.08                | 0.023 [0.584]     |
| TJ31UEB820L | 82.0            | $\pm$ 15 | 0.087                 | 2.6                  | 82.50                         | 0.66                                            | 63.11                | 1.07           | 56.10                | 1.52           | 49.09                | 1.98           | 42.08                | 0.020 [0.508]     |
| TJ31UEB101L | 100.0           | $\pm$ 15 | 0.097                 | 2.4                  | 99.83                         | 0.60                                            | 76.37                | 0.97           | 67.88                | 1.38           | 59.40                | 1.80           | 50.91                | 0.020 [0.508]     |
| TJ31UEB121L | 120.0           | $\pm$ 15 | 0.107                 | 2.3                  | 118.80                        | 0.55                                            | 90.88                | 0.89           | 80.78                | 1.27           | 70.69                | 1.65           | 60.59                | 0.020 [0.508]     |

**Note**

- The DC current values listed are typical values that drop the nominal inductance by the percent listed



| STANDARD ELECTRICAL SPECIFICATIONS in inches [millimeters] |           |          |              |                      |                         |                                                 |                |                |                |                |                |                |                |                   |
|------------------------------------------------------------|-----------|----------|--------------|----------------------|-------------------------|-------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| PART NUMBER                                                | IND. (μH) | TOL. (%) | DCR NOM. (Ω) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA (μH) | INDUCTANCE SHIFT WITH DC CURRENT <sup>(1)</sup> |                |                |                |                |                |                |                | LEAD DIAMETER "A" |
|                                                            |           |          |              |                      |                         | 10 % DRO P (A)                                  | IND. MIN. (μH) | 20 % DRO P (A) | IND. MIN. (μH) | 30 % DRO P (A) | IND. MIN. (μH) | 40 % DRO P (A) | IND. MIN. (μH) |                   |
| TJ31UEB151L                                                | 150.0     | ± 15     | 0.146        | 1.9                  | 148.14                  | 0.49                                            | 113.32         | 0.80           | 100.73         | 1.14           | 88.14          | 1.48           | 75.55          | 0.018 [0.457]     |
| TJ31UEB181L                                                | 180.0     | ± 15     | 0.164        | 1.8                  | 180.71                  | 0.45                                            | 138.24         | 0.72           | 122.88         | 1.03           | 107.52         | 1.34           | 92.16          | 0.018 [0.457]     |
| TJ31UEB221L                                                | 220.0     | ± 15     | 0.225        | 1.5                  | 221.89                  | 0.40                                            | 169.75         | 0.65           | 150.89         | 0.93           | 132.03         | 1.21           | 113.16         | 0.016 [0.406]     |
| TJ31UEB271L                                                | 270.0     | ± 15     | 0.250        | 1.4                  | 267.30                  | 0.37                                            | 204.48         | 0.59           | 181.76         | 0.85           | 159.04         | 1.10           | 136.32         | 0.016 [0.406]     |
| TJ31UEB331L                                                | 330.0     | ± 15     | 0.342        | 1.2                  | 330.00                  | 0.33                                            | 252.45         | 0.53           | 224.40         | 0.76           | 196.35         | 0.99           | 168.30         | 0.014 [0.356]     |
| TJ31UEB391L                                                | 390.0     | ± 15     | 0.378        | 1.1                  | 392.07                  | 0.30                                            | 299.94         | 0.49           | 266.61         | 0.70           | 233.28         | 0.91           | 199.96         | 0.014 [0.356]     |
| TJ31UEB471L                                                | 470.0     | ± 15     | 0.510        | 1.0                  | 467.31                  | 0.28                                            | 357.49         | 0.45           | 317.77         | 0.64           | 278.05         | 0.83           | 238.33         | 0.013 [0.330]     |
| TJ31UEB561L                                                | 560.0     | ± 15     | 0.565        | 0.9                  | 557.70                  | 0.25                                            | 426.64         | 0.41           | 379.24         | 0.59           | 331.83         | 0.76           | 284.43         | 0.013 [0.330]     |
| TJ31UEB681L                                                | 680.0     | ± 15     | 0.637        | 0.8                  | 684.29                  | 0.23                                            | 523.48         | 0.37           | 465.32         | 0.53           | 407.15         | 0.69           | 348.99         | 0.013 [0.330]     |
| TJ31UEB821L                                                | 820.0     | ± 15     | 0.849        | 0.7                  | 823.81                  | 0.21                                            | 630.22         | 0.34           | 560.19         | 0.48           | 490.17         | 0.63           | 420.14         | 0.011 [0.279]     |
| TJ31UEB102L                                                | 1000.0    | ± 15     | 0.951        | 0.7                  | 999.11                  | 0.19                                            | 764.32         | 0.31           | 679.39         | 0.44           | 594.47         | 0.57           | 509.55         | 0.011 [0.279]     |
| TJ31UEB122L                                                | 1200.0    | ± 15     | 1.298        | 0.6                  | 1203.87                 | 0.17                                            | 920.96         | 0.28           | 818.63         | 0.40           | 716.30         | 0.52           | 613.98         | 0.010 [0.254]     |
| TJ31UEB152L                                                | 1500.0    | ± 15     | 1.476        | 0.5                  | 1497.18                 | 0.15                                            | 1145.34        | 0.25           | 1018.08        | 0.36           | 890.82         | 0.46           | 763.56         | 0.010 [0.254]     |
| TJ41UEB1R2M                                                | 1.2       | ± 20     | 0.006        | 10.7                 | 1.09                    | 8.75                                            | 0.83           | 14.14          | 0.74           | 20.20          | 0.65           | 26.26          | 0.55           | 0.032 [0.813]     |
| TJ41UEB1R5M                                                | 1.5       | ± 20     | 0.006        | 10.2                 | 1.57                    | 7.29                                            | 1.20           | 11.78          | 1.06           | 16.83          | 0.93           | 21.88          | 0.80           | 0.032 [0.813]     |
| TJ41UEB2R2L                                                | 2.2       | ± 15     | 0.007        | 9.7                  | 2.13                    | 6.25                                            | 1.63           | 10.10          | 1.45           | 14.43          | 1.27           | 18.75          | 1.09           | 0.032 [0.813]     |
| TJ41UEB2R7L                                                | 2.7       | ± 15     | 0.008        | 9.5                  | 2.78                    | 5.47                                            | 2.13           | 8.84           | 1.89           | 12.62          | 1.66           | 16.41          | 1.42           | 0.032 [0.813]     |
| TJ41UEB3R3M                                                | 3.3       | ± 20     | 0.009        | 8.8                  | 3.52                    | 4.86                                            | 2.70           | 7.85           | 2.40           | 11.22          | 2.10           | 14.59          | 1.80           | 0.032 [0.813]     |
| TJ41UEB4R7M                                                | 4.7       | ± 20     | 0.010        | 8.5                  | 4.35                    | 4.38                                            | 3.33           | 7.07           | 2.96           | 10.10          | 2.59           | 13.13          | 2.22           | 0.032 [0.813]     |
| TJ41UEB5R6M                                                | 5.6       | ± 20     | 0.010        | 8.3                  | 5.26                    | 3.98                                            | 4.03           | 6.43           | 3.58           | 9.18           | 3.13           | 11.93          | 2.68           | 0.032 [0.813]     |
| TJ41UEB6R8M                                                | 6.8       | ± 20     | 0.011        | 8.1                  | 6.26                    | 3.65                                            | 4.79           | 5.89           | 4.26           | 8.42           | 3.73           | 10.94          | 3.19           | 0.032 [0.813]     |
| TJ41UEB8R2L                                                | 8.2       | ± 15     | 0.013        | 7.8                  | 8.53                    | 3.13                                            | 6.52           | 5.05           | 5.80           | 7.21           | 5.07           | 9.38           | 4.35           | 0.032 [0.813]     |
| TJ41UEB100L                                                | 10.0      | ± 15     | 0.013        | 7.4                  | 9.79                    | 2.92                                            | 7.49           | 4.71           | 6.66           | 6.73           | 5.82           | 8.75           | 4.99           | 0.032 [0.813]     |
| TJ41UEB120M                                                | 12.0      | ± 20     | 0.015        | 7.1                  | 12.57                   | 2.57                                            | 9.62           | 4.16           | 8.55           | 5.94           | 7.48           | 7.72           | 6.41           | 0.032 [0.813]     |
| TJ41UEB150M                                                | 15.0      | ± 20     | 0.017        | 6.8                  | 15.70                   | 2.30                                            | 12.01          | 3.72           | 10.68          | 5.31           | 9.34           | 6.91           | 8.01           | 0.032 [0.813]     |
| TJ41UEB180L                                                | 18.0      | ± 15     | 0.017        | 6.7                  | 17.40                   | 2.19                                            | 13.31          | 3.53           | 11.83          | 5.05           | 10.35          | 6.56           | 8.87           | 0.032 [0.813]     |
| TJ41UEB220L                                                | 22.0      | ± 15     | 0.019        | 6.5                  | 21.05                   | 1.99                                            | 16.11          | 3.21           | 14.32          | 4.59           | 12.53          | 5.97           | 10.74          | 0.032 [0.813]     |
| TJ41UEB270L                                                | 27.0      | ± 15     | 0.021        | 6.1                  | 27.19                   | 1.75                                            | 20.80          | 2.83           | 18.49          | 4.04           | 16.18          | 5.25           | 13.87          | 0.032 [0.813]     |
| TJ41UEB330L                                                | 33.0      | ± 15     | 0.024        | 5.8                  | 34.10                   | 1.56                                            | 26.09          | 2.52           | 23.19          | 3.61           | 20.29          | 4.69           | 17.39          | 0.032 [0.813]     |
| TJ41UEB390L                                                | 39.0      | ± 15     | 0.025        | 5.7                  | 39.15                   | 1.46                                            | 29.95          | 2.36           | 26.62          | 3.37           | 23.29          | 4.38           | 19.97          | 0.032 [0.813]     |
| TJ41UEB470L                                                | 47.0      | ± 15     | 0.028        | 5.5                  | 47.37                   | 1.33                                            | 36.24          | 2.14           | 32.21          | 3.06           | 28.19          | 3.98           | 24.16          | 0.032 [0.813]     |
| TJ41UEB560L                                                | 56.0      | ± 15     | 0.031        | 5.2                  | 56.38                   | 1.22                                            | 43.13          | 1.96           | 38.34          | 2.81           | 33.54          | 3.65           | 28.75          | 0.032 [0.813]     |
| TJ41UEB680L                                                | 68.0      | ± 15     | 0.040        | 4.6                  | 66.16                   | 1.12                                            | 50.62          | 1.81           | 44.99          | 2.59           | 39.37          | 3.37           | 33.74          | 0.029 [0.737]     |
| TJ41UEB820L                                                | 82.0      | ± 15     | 0.045        | 4.4                  | 80.43                   | 1.02                                            | 61.53          | 1.64           | 54.69          | 2.35           | 47.86          | 3.05           | 41.02          | 0.029 [0.737]     |
| TJ41UEB101L                                                | 100.0     | ± 15     | 0.062        | 3.7                  | 100.22                  | 0.91                                            | 76.67          | 1.47           | 68.15          | 2.10           | 59.63          | 2.73           | 51.11          | 0.025 [0.635]     |
| TJ41UEB121L                                                | 120.0     | ± 15     | 0.070        | 3.5                  | 122.19                  | 0.83                                            | 93.48          | 1.33           | 83.09          | 1.91           | 72.70          | 2.48           | 62.32          | 0.025 [0.635]     |
| TJ41UEB151L                                                | 150.0     | ± 15     | 0.079        | 3.3                  | 151.42                  | 0.74                                            | 115.84         | 1.20           | 102.97         | 1.71           | 90.10          | 2.23           | 77.23          | 0.025 [0.635]     |
| TJ41UEB181L                                                | 180.0     | ± 15     | 0.105        | 2.9                  | 178.18                  | 0.68                                            | 136.30         | 1.10           | 121.16         | 1.58           | 106.01         | 2.05           | 90.87          | 0.023 [0.584]     |
| TJ41UEB221L                                                | 220.0     | ± 15     | 0.118        | 2.7                  | 219.28                  | 0.62                                            | 167.75         | 1.00           | 149.11         | 1.42           | 130.47         | 1.85           | 111.83         | 0.023 [0.584]     |
| TJ41UEB271L                                                | 270.0     | ± 15     | 0.162        | 2.3                  | 271.48                  | 0.55                                            | 207.68         | 0.89           | 184.61         | 1.28           | 161.53         | 1.66           | 138.46         | 0.020 [0.508]     |
| TJ41UEB331L                                                | 330.0     | ± 15     | 0.181        | 2.2                  | 329.25                  | 0.50                                            | 251.88         | 0.81           | 223.89         | 1.16           | 195.90         | 1.51           | 167.92         | 0.020 [0.508]     |
| TJ41UEB391L                                                | 390.0     | ± 15     | 0.243        | 1.9                  | 392.59                  | 0.46                                            | 300.33         | 0.74           | 266.96         | 1.06           | 233.59         | 1.38           | 200.22         | 0.018 [0.457]     |
| TJ41UEB471L                                                | 470.0     | ± 15     | 0.269        | 1.8                  | 470.50                  | 0.42                                            | 359.93         | 0.68           | 319.94         | 0.97           | 279.95         | 1.26           | 239.95         | 0.018 [0.457]     |
| TJ41UEB561L                                                | 560.0     | ± 15     | 0.297        | 1.7                  | 555.45                  | 0.39                                            | 424.92         | 0.63           | 377.71         | 0.89           | 330.49         | 1.16           | 283.28         | 0.018 [0.457]     |
| TJ41UEB681L                                                | 680.0     | ± 15     | 0.406        | 1.4                  | 679.69                  | 0.35                                            | 519.96         | 0.57           | 462.19         | 0.81           | 404.41         | 1.05           | 346.64         | 0.016 [0.406]     |
| TJ41UEB821L                                                | 820.0     | ± 15     | 0.452        | 1.3                  | 816.45                  | 0.32                                            | 624.59         | 0.52           | 555.19         | 0.74           | 485.79         | 0.96           | 416.39         | 0.016 [0.406]     |
| TJ41UEB102L                                                | 1000.0    | ± 15     | 0.617        | 1.1                  | 1005.02                 | 0.29                                            | 768.84         | 0.47           | 683.42         | 0.66           | 597.99         | 0.86           | 512.56         | 0.014 [0.356]     |
| TJ41UEB122L                                                | 1200.0    | ± 15     | 0.684        | 1.0                  | 1198.69                 | 0.26                                            | 916.99         | 0.43           | 815.11         | 0.61           | 713.22         | 0.79           | 611.33         | 0.014 [0.356]     |
| TJ41UEB152L                                                | 1500.0    | ± 15     | 0.952        | 0.9                  | 1504.93                 | 0.24                                            | 1151.27        | 0.38           | 1023.35        | 0.54           | 895.43         | 0.71           | 767.51         | 0.013 [0.330]     |

**Note**

- The DC current values listed are typical values that drop the nominal inductance by the percent listed



| STANDARD ELECTRICAL SPECIFICATIONS in inches [millimeters] |           |          |              |                      |                         |                                                 |                |                |                |                |                |                |                |                   |
|------------------------------------------------------------|-----------|----------|--------------|----------------------|-------------------------|-------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| PART NUMBER                                                | IND. (μH) | TOL. (%) | DCR NOM. (Ω) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA (μH) | INDUCTANCE SHIFT WITH DC CURRENT <sup>(1)</sup> |                |                |                |                |                |                |                | LEAD DIAMETER "A" |
|                                                            |           |          |              |                      |                         | 10 % DRO P (A)                                  | IND. MIN. (μH) | 20 % DRO P (A) | IND. MIN. (μH) | 30 % DRO P (A) | IND. MIN. (μH) | 40 % DRO P (A) | IND. MIN. (μH) |                   |
| TJ51UEB1R2M                                                | 1.2       | ± 20     | 0.006        | 10.1                 | 1.15                    | 10.63                                           | 0.88           | 17.18          | 0.78           | 24.54          | 0.68           | 31.90          | 0.59           | 0.032 [0.813]     |
| TJ51UEB1R5V                                                | 1.5       | ± 25     | 0.007        | 9.5                  | 1.66                    | 8.86                                            | 1.27           | 14.32          | 1.13           | 20.45          | 0.99           | 26.59          | 0.84           | 0.032 [0.813]     |
| TJ51UEB2R2L                                                | 2.2       | ± 15     | 0.008        | 9.0                  | 2.25                    | 7.60                                            | 1.72           | 12.27          | 1.53           | 17.53          | 1.34           | 22.79          | 1.15           | 0.032 [0.813]     |
| TJ51UEB2R7V                                                | 2.7       | ± 25     | 0.009        | 8.6                  | 2.94                    | 6.65                                            | 2.25           | 10.74          | 2.00           | 15.34          | 1.75           | 19.94          | 1.50           | 0.032 [0.813]     |
| TJ51UEB3R9L                                                | 3.9       | ± 15     | 0.010        | 8.2                  | 3.73                    | 5.91                                            | 2.85           | 9.54           | 2.53           | 13.63          | 2.22           | 17.72          | 1.90           | 0.032 [0.813]     |
| TJ51UEB4R7L                                                | 4.7       | ± 15     | 0.010        | 7.9                  | 4.60                    | 5.32                                            | 3.52           | 8.59           | 3.13           | 12.27          | 2.74           | 15.95          | 2.35           | 0.032 [0.813]     |
| TJ51UEB5R6L                                                | 5.6       | ± 15     | 0.011        | 7.7                  | 5.57                    | 4.83                                            | 4.26           | 7.81           | 3.78           | 11.16          | 3.31           | 14.50          | 2.84           | 0.032 [0.813]     |
| TJ51UEB6R8L                                                | 6.8       | ± 15     | 0.012        | 7.5                  | 6.62                    | 4.43                                            | 5.07           | 7.16           | 4.50           | 10.23          | 3.94           | 13.29          | 3.38           | 0.032 [0.813]     |
| TJ51UEB8R2L                                                | 8.2       | ± 15     | 0.013        | 7.3                  | 7.77                    | 4.09                                            | 5.95           | 6.61           | 5.29           | 9.44           | 4.63           | 12.27          | 3.96           | 0.032 [0.813]     |
| TJ51UEB100L                                                | 10.0      | ± 15     | 0.015        | 7.0                  | 10.35                   | 3.54                                            | 7.92           | 5.73           | 7.04           | 8.18           | 6.16           | 10.63          | 5.28           | 0.032 [0.813]     |
| TJ51UEB120L                                                | 12.0      | ± 15     | 0.016        | 6.9                  | 11.78                   | 3.32                                            | 9.01           | 5.37           | 8.01           | 7.67           | 7.01           | 9.97           | 6.01           | 0.032 [0.813]     |
| TJ51UEB150L                                                | 15.0      | ± 15     | 0.017        | 6.6                  | 14.90                   | 2.95                                            | 11.40          | 4.77           | 10.13          | 6.82           | 8.87           | 8.86           | 7.60           | 0.032 [0.813]     |
| TJ51UEB180L                                                | 18.0      | ± 15     | 0.019        | 6.4                  | 18.40                   | 2.66                                            | 14.08          | 4.29           | 12.51          | 6.14           | 10.95          | 7.98           | 9.38           | 0.032 [0.813]     |
| TJ51UEB220L                                                | 22.0      | ± 15     | 0.021        | 6.2                  | 22.26                   | 2.42                                            | 17.03          | 3.90           | 15.14          | 5.58           | 13.25          | 7.25           | 11.35          | 0.032 [0.813]     |
| TJ51UEB270L                                                | 27.0      | ± 15     | 0.023        | 6.0                  | 26.50                   | 2.22                                            | 20.27          | 3.58           | 18.02          | 5.11           | 15.77          | 6.65           | 13.51          | 0.032 [0.813]     |
| TJ51UEB330L                                                | 33.0      | ± 15     | 0.025        | 5.7                  | 33.53                   | 1.97                                            | 25.65          | 3.18           | 22.80          | 4.54           | 19.95          | 5.91           | 17.10          | 0.032 [0.813]     |
| TJ51UEB390L                                                | 39.0      | ± 15     | 0.027        | 5.5                  | 38.69                   | 1.83                                            | 29.59          | 2.96           | 26.31          | 4.23           | 23.02          | 5.50           | 19.73          | 0.032 [0.813]     |
| TJ51UEB470L                                                | 47.0      | ± 15     | 0.029        | 5.3                  | 47.10                   | 1.66                                            | 36.03          | 2.68           | 32.03          | 3.83           | 28.03          | 4.99           | 24.02          | 0.032 [0.813]     |
| TJ51UEB560L                                                | 56.0      | ± 15     | 0.032        | 5.2                  | 56.35                   | 1.52                                            | 43.11          | 2.45           | 38.32          | 3.51           | 33.53          | 4.56           | 28.74          | 0.032 [0.813]     |
| TJ51UEB680L                                                | 68.0      | ± 15     | 0.035        | 5.1                  | 66.42                   | 1.40                                            | 50.81          | 2.26           | 45.17          | 3.23           | 39.52          | 4.20           | 33.88          | 0.032 [0.813]     |
| TJ51UEB820L                                                | 82.0      | ± 15     | 0.038        | 5.0                  | 81.14                   | 1.27                                            | 62.08          | 2.05           | 55.18          | 2.92           | 48.28          | 3.80           | 41.38          | 0.032 [0.813]     |
| TJ51UEB101L                                                | 100.0     | ± 15     | 0.042        | 4.9                  | 97.34                   | 1.16                                            | 74.46          | 1.87           | 66.19          | 2.67           | 57.91          | 3.47           | 49.64          | 0.032 [0.813]     |
| TJ51UEB121L                                                | 120.0     | ± 15     | 0.047        | 4.8                  | 119.65                  | 1.04                                            | 91.53          | 1.68           | 81.36          | 2.41           | 71.19          | 3.13           | 61.02          | 0.032 [0.813]     |
| TJ51UEB151L                                                | 150.0     | ± 15     | 0.054        | 4.7                  | 149.45                  | 0.93                                            | 114.33         | 1.51           | 101.63         | 2.15           | 88.93          | 2.80           | 76.22          | 0.032 [0.813]     |
| TJ51UEB181L                                                | 180.0     | ± 15     | 0.060        | 4.6                  | 182.57                  | 0.84                                            | 139.67         | 1.36           | 124.15         | 1.95           | 108.63         | 2.53           | 93.11          | 0.032 [0.813]     |
| TJ51UEB221L                                                | 220.0     | ± 15     | 0.067        | 4.2                  | 219.01                  | 0.77                                            | 167.54         | 1.24           | 148.92         | 1.78           | 130.31         | 2.31           | 111.69         | 0.032 [0.813]     |
| TJ51UEB271L                                                | 270.0     | ± 15     | 0.092        | 3.7                  | 272.73                  | 0.69                                            | 208.64         | 1.12           | 185.46         | 1.59           | 162.28         | 2.07           | 139.09         | 0.029 [0.737]     |
| TJ51UEB331L                                                | 330.0     | ± 15     | 0.104        | 3.5                  | 332.35                  | 0.63                                            | 254.25         | 1.01           | 226.00         | 1.44           | 197.75         | 1.88           | 169.50         | 0.029 [0.737]     |
| TJ51UEB391L                                                | 390.0     | ± 15     | 0.138        | 2.9                  | 389.34                  | 0.58                                            | 297.85         | 0.93           | 264.75         | 1.33           | 231.66         | 1.73           | 198.57         | 0.025 [0.635]     |
| TJ51UEB471L                                                | 470.0     | ± 15     | 0.154        | 2.8                  | 469.25                  | 0.53                                            | 358.97         | 0.85           | 319.09         | 1.21           | 279.20         | 1.58           | 239.32         | 0.025 [0.635]     |
| TJ51UEB561L                                                | 560.0     | ± 15     | 0.205        | 2.3                  | 556.60                  | 0.48                                            | 425.80         | 0.78           | 378.49         | 1.12           | 331.18         | 1.45           | 283.87         | 0.023 [0.584]     |
| TJ51UEB681L                                                | 680.0     | ± 15     | 0.232        | 2.2                  | 684.66                  | 0.44                                            | 523.77         | 0.70           | 465.57         | 1.01           | 407.38         | 1.31           | 349.18         | 0.023 [0.584]     |
| TJ51UEB821L                                                | 820.0     | ± 15     | 0.260        | 2.1                  | 825.98                  | 0.40                                            | 631.87         | 0.64           | 561.66         | 0.92           | 491.46         | 1.19           | 421.25         | 0.023 [0.584]     |
| TJ51UEB102L                                                | 1000.0    | ± 15     | 0.349        | 1.7                  | 994.01                  | 0.36                                            | 760.42         | 0.58           | 675.93         | 0.83           | 591.44         | 1.09           | 506.95         | 0.020 [0.508]     |
| TJ51UEB122L                                                | 1200.0    | ± 15     | 0.393        | 1.6                  | 1207.22                 | 0.33                                            | 923.53         | 0.53           | 820.91         | 0.76           | 718.30         | 0.98           | 615.68         | 0.020 [0.508]     |
| TJ51UEB152L                                                | 1500.0    | ± 15     | 0.539        | 1.3                  | 1507.01                 | 0.29                                            | 1152.86        | 0.47           | 1024.76        | 0.68           | 896.67         | 0.88           | 768.57         | 0.018 [0.457]     |
| TJ61UEB1R2M                                                | 1.2       | ± 20     | 0.004        | 16.0                 | 1.12                    | 22.38                                           | 0.85           | 36.15          | 0.76           | 51.65          | 0.66           | 67.14          | 0.57           | 0.045 [1.14]      |
| TJ61UEB2R2M                                                | 2.2       | ± 20     | 0.005        | 16.0                 | 1.98                    | 16.78                                           | 1.52           | 27.11          | 1.35           | 38.73          | 1.18           | 50.35          | 1.01           | 0.045 [1.14]      |
| TJ61UEB3R3M                                                | 3.3       | ± 20     | 0.006        | 16.0                 | 3.10                    | 13.43                                           | 2.37           | 21.69          | 2.11           | 30.99          | 1.84           | 40.28          | 1.58           | 0.045 [1.14]      |
| TJ61UEB4R7L                                                | 4.7       | ± 15     | 0.007        | 16.0                 | 4.46                    | 11.19                                           | 3.41           | 18.08          | 3.04           | 25.82          | 2.66           | 33.57          | 2.28           | 0.045 [1.14]      |
| TJ61UEB5R6V                                                | 5.6       | ± 25     | 0.007        | 16.0                 | 6.08                    | 9.59                                            | 4.65           | 15.49          | 4.13           | 22.13          | 3.62           | 28.77          | 3.10           | 0.045 [1.14]      |
| TJ61UEB8R2L                                                | 8.2       | ± 15     | 0.008        | 15.2                 | 7.94                    | 8.39                                            | 6.07           | 13.56          | 5.40           | 19.37          | 4.72           | 25.18          | 4.05           | 0.045 [1.14]      |
| TJ61UEB100L                                                | 10.0      | ± 15     | 0.009        | 14.5                 | 10.04                   | 7.46                                            | 7.68           | 12.05          | 6.83           | 17.22          | 5.98           | 22.38          | 5.12           | 0.045 [1.14]      |
| TJ61UEB120L                                                | 12.0      | ± 15     | 0.010        | 13.9                 | 12.40                   | 6.71                                            | 9.49           | 10.85          | 8.43           | 15.49          | 7.38           | 20.14          | 6.32           | 0.045 [1.14]      |
| TJ61UEB150L                                                | 15.0      | ± 15     | 0.011        | 13.3                 | 15.00                   | 6.10                                            | 11.48          | 9.86           | 10.20          | 14.09          | 8.93           | 18.31          | 7.65           | 0.045 [1.14]      |
| TJ61UEB180L                                                | 18.0      | ± 15     | 0.012        | 12.7                 | 17.86                   | 5.59                                            | 13.66          | 9.04           | 12.14          | 12.91          | 10.62          | 16.78          | 9.11           | 0.045 [1.14]      |
| TJ61UEB220L                                                | 22.0      | ± 15     | 0.012        | 12.5                 | 20.96                   | 5.16                                            | 16.03          | 8.34           | 14.25          | 11.92          | 12.47          | 15.49          | 10.69          | 0.045 [1.14]      |
| TJ61UEB270L                                                | 27.0      | ± 15     | 0.014        | 11.8                 | 27.90                   | 4.48                                            | 21.34          | 7.23           | 18.97          | 10.33          | 16.60          | 13.43          | 14.23          | 0.045 [1.14]      |
| TJ61UEB330L                                                | 33.0      | ± 15     | 0.015        | 11.5                 | 31.74                   | 4.20                                            | 24.28          | 6.78           | 21.59          | 9.68           | 18.89          | 12.59          | 16.19          | 0.045 [1.14]      |

## Note

- The DC current values listed are typical values that drop the nominal inductance by the percent listed



| STANDARD ELECTRICAL SPECIFICATIONS in inches [millimeters] |           |          |              |                      |                         |                                                 |                |                |                |                |                |                |                |                   |
|------------------------------------------------------------|-----------|----------|--------------|----------------------|-------------------------|-------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| PART NUMBER                                                | IND. (μH) | TOL. (%) | DCR NOM. (Ω) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA (μH) | INDUCTANCE SHIFT WITH DC CURRENT <sup>(1)</sup> |                |                |                |                |                |                |                | LEAD DIAMETER "A" |
|                                                            |           |          |              |                      |                         | 10 % DRO P (A)                                  | IND. MIN. (μH) | 20 % DRO P (A) | IND. MIN. (μH) | 30 % DRO P (A) | IND. MIN. (μH) | 40 % DRO P (A) | IND. MIN. (μH) |                   |
| TJ61UEB390L                                                | 39.0      | ± 15     | 0.017        | 11.0                 | 40.18                   | 3.73                                            | 30.73          | 6.03           | 27.32          | 8.61           | 23.90          | 11.19          | 20.49          | 0.045 [1.14]      |
| TJ61UEB470L                                                | 47.0      | ± 15     | 0.017        | 10.7                 | 44.76                   | 3.53                                            | 34.24          | 5.71           | 30.44          | 8.15           | 26.63          | 10.60          | 22.83          | 0.045 [1.14]      |
| TJ61UEB560L                                                | 56.0      | ± 15     | 0.019        | 10.4                 | 54.68                   | 3.20                                            | 41.83          | 5.16           | 37.19          | 7.38           | 32.54          | 9.59           | 27.89          | 0.045 [1.14]      |
| TJ61UEB680L                                                | 68.0      | ± 15     | 0.021        | 10.0                 | 65.60                   | 2.92                                            | 50.18          | 4.72           | 44.61          | 6.74           | 39.03          | 8.76           | 33.45          | 0.045 [1.14]      |
| TJ61UEB820L                                                | 82.0      | ± 15     | 0.023        | 9.5                  | 83.82                   | 2.58                                            | 64.13          | 4.17           | 57.00          | 5.96           | 49.88          | 7.75           | 42.75          | 0.045 [1.14]      |
| TJ61UEB101L                                                | 100.0     | ± 15     | 0.025        | 9.2                  | 97.22                   | 2.40                                            | 74.37          | 3.87           | 66.11          | 5.53           | 57.84          | 7.19           | 49.58          | 0.045 [1.14]      |
| TJ61UEB121L                                                | 120.0     | ± 15     | 0.027        | 8.8                  | 119.16                  | 2.17                                            | 91.16          | 3.50           | 81.03          | 5.00           | 70.90          | 6.50           | 60.77          | 0.045 [1.14]      |
| TJ61UEB151L                                                | 150.0     | ± 15     | 0.031        | 8.6                  | 151.90                  | 1.92                                            | 116.20         | 3.10           | 103.29         | 4.43           | 90.38          | 5.75           | 77.47          | 0.045 [1.14]      |
| TJ61UEB181L                                                | 180.0     | ± 15     | 0.033        | 8.5                  | 179.06                  | 1.77                                            | 136.98         | 2.85           | 121.76         | 4.08           | 106.54         | 5.30           | 91.32          | 0.045 [1.14]      |
| TJ61UEB221L                                                | 220.0     | ± 15     | 0.037        | 8.4                  | 218.74                  | 1.60                                            | 167.33         | 2.58           | 148.74         | 3.69           | 130.15         | 4.80           | 111.56         | 0.045 [1.14]      |
| TJ61UEB271L                                                | 270.0     | ± 15     | 0.058        | 7.4                  | 273.92                  | 1.43                                            | 209.55         | 2.31           | 186.26         | 3.30           | 162.98         | 4.29           | 139.70         | 0.040 [1.02]      |
| TJ61UEB331L                                                | 330.0     | ± 15     | 0.065        | 7.0                  | 335.30                  | 1.29                                            | 256.50         | 2.09           | 228.00         | 2.98           | 199.50         | 3.87           | 171.00         | 0.040 [1.02]      |
| TJ61UEB391L                                                | 390.0     | ± 15     | 0.070        | 6.7                  | 388.86                  | 1.20                                            | 297.48         | 1.94           | 264.43         | 2.77           | 231.37         | 3.60           | 198.32         | 0.040 [1.02]      |
| TJ61UEB471L                                                | 470.0     | ± 15     | 0.101        | 5.5                  | 476.66                  | 1.08                                            | 364.64         | 1.75           | 324.13         | 2.50           | 283.61         | 3.25           | 243.09         | 0.036 [0.914]     |
| TJ61UEB561L                                                | 560.0     | ± 15     | 0.110        | 5.3                  | 556.64                  | 1.00                                            | 425.83         | 1.62           | 378.51         | 2.31           | 331.20         | 3.01           | 283.88         | 0.036 [0.914]     |
| TJ61UEB681L                                                | 680.0     | ± 15     | 0.129        | 4.4                  | 679.02                  | 0.91                                            | 519.45         | 1.47           | 461.74         | 2.09           | 404.02         | 2.72           | 346.30         | 0.032 [0.813]     |
| TJ61UEB821L                                                | 820.0     | ± 15     | 0.143        | 4.2                  | 813.56                  | 0.83                                            | 622.38         | 1.34           | 553.22         | 1.91           | 484.07         | 2.49           | 414.92         | 0.032 [0.813]     |
| TJ61UEB102L                                                | 1000.0    | ± 15     | 0.160        | 4.0                  | 1004.40                 | 0.75                                            | 768.37         | 1.21           | 682.99         | 1.72           | 597.62         | 2.24           | 512.24         | 0.032 [0.813]     |
| TJ61UEB122L                                                | 1200.0    | ± 15     | 0.209        | 3.3                  | 1190.90                 | 0.69                                            | 911.04         | 1.11           | 809.81         | 1.58           | 708.58         | 2.06           | 607.36         | 0.029 [0.737]     |
| TJ61UEB152L                                                | 1500.0    | ± 15     | 0.238        | 3.1                  | 1500.40                 | 0.61                                            | 1147.81        | 0.99           | 1020.27        | 1.41           | 892.74         | 1.83           | 765.20         | 0.029 [0.737]     |
| TJ61UEB182L                                                | 1800.0    | ± 15     | 0.323        | 2.6                  | 1785.60                 | 0.56                                            | 1365.98        | 0.90           | 1214.21        | 1.29           | 1062.43        | 1.68           | 910.66         | 0.025 [0.635]     |
| TJ61UEB222L                                                | 2200.0    | ± 15     | 0.363        | 2.5                  | 2193.44                 | 0.50                                            | 1677.98        | 0.82           | 1491.54        | 1.16           | 1305.09        | 1.51           | 1118.65        | 0.025 [0.635]     |
| TJ61UEB272L                                                | 2700.0    | ± 15     | 0.499        | 2.0                  | 2716.10                 | 0.45                                            | 2077.81        | 0.73           | 1846.95        | 1.05           | 1616.08        | 1.36           | 1385.21        | 0.023 [0.584]     |
| TJ71UEB1R2M                                                | 1.2       | ± 20     | 0.005        | 16.0                 | 1.30                    | 21.41                                           | 0.99           | 34.59          | 0.88           | 49.42          | 0.77           | 64.24          | 0.66           | 0.045 [1.14]      |
| TJ71UEB2R2M                                                | 2.2       | ± 20     | 0.006        | 16.0                 | 2.03                    | 17.13                                           | 1.55           | 27.67          | 1.38           | 39.53          | 1.20           | 51.39          | 1.03           | 0.045 [1.14]      |
| TJ71UEB2R7M                                                | 2.7       | ± 20     | 0.007        | 16.0                 | 2.92                    | 14.28                                           | 2.23           | 23.06          | 1.98           | 32.95          | 1.74           | 42.83          | 1.49           | 0.045 [1.14]      |
| TJ71UEB3R9L                                                | 3.9       | ± 15     | 0.008        | 16.0                 | 3.97                    | 12.24                                           | 3.04           | 19.77          | 2.70           | 28.24          | 2.36           | 36.71          | 2.02           | 0.045 [1.14]      |
| TJ71UEB5R6M                                                | 5.6       | ± 20     | 0.009        | 16.0                 | 5.18                    | 10.71                                           | 3.97           | 17.30          | 3.53           | 24.71          | 3.08           | 32.12          | 2.64           | 0.045 [1.14]      |
| TJ71UEB6R8L                                                | 6.8       | ± 15     | 0.010        | 16.0                 | 6.56                    | 9.52                                            | 5.02           | 15.37          | 4.46           | 21.96          | 3.90           | 28.55          | 3.35           | 0.045 [1.14]      |
| TJ71UEB8R2L                                                | 8.2       | ± 15     | 0.010        | 15.5                 | 8.10                    | 8.57                                            | 6.20           | 13.84          | 5.51           | 19.77          | 4.82           | 25.70          | 4.13           | 0.045 [1.14]      |
| TJ71UEB100L                                                | 10.0      | ± 15     | 0.011        | 14.9                 | 9.80                    | 7.79                                            | 7.50           | 12.58          | 6.66           | 17.97          | 5.83           | 23.36          | 5.00           | 0.045 [1.14]      |
| TJ71UEB120L                                                | 12.0      | ± 15     | 0.012        | 14.4                 | 11.66                   | 7.14                                            | 8.92           | 11.53          | 7.93           | 16.47          | 6.94           | 21.41          | 5.95           | 0.045 [1.14]      |
| TJ71UEB150M                                                | 15.0      | ± 20     | 0.013        | 13.5                 | 15.88                   | 6.12                                            | 12.15          | 9.88           | 10.80          | 14.12          | 9.45           | 18.36          | 8.10           | 0.045 [1.14]      |
| TJ71UEB180L                                                | 18.0      | ± 15     | 0.014        | 13.0                 | 18.23                   | 5.71                                            | 13.94          | 9.22           | 12.39          | 13.18          | 10.84          | 17.13          | 9.29           | 0.045 [1.14]      |
| TJ71UEB220M                                                | 22.0      | ± 20     | 0.015        | 12.8                 | 20.74                   | 5.35                                            | 15.86          | 8.65           | 14.10          | 12.35          | 12.34          | 16.06          | 10.58          | 0.045 [1.14]      |
| TJ71UEB270L                                                | 27.0      | ± 15     | 0.016        | 12.2                 | 26.24                   | 4.76                                            | 20.08          | 7.69           | 17.85          | 10.98          | 15.62          | 14.28          | 13.38          | 0.045 [1.14]      |
| TJ71UEB330L                                                | 33.0      | ± 15     | 0.018        | 11.6                 | 32.40                   | 4.28                                            | 24.79          | 6.92           | 22.03          | 9.88           | 19.28          | 12.85          | 16.52          | 0.045 [1.14]      |
| TJ71UEB390L                                                | 39.0      | ± 15     | 0.019        | 11.2                 | 39.20                   | 3.89                                            | 29.99          | 6.29           | 26.66          | 8.99           | 23.33          | 11.68          | 19.99          | 0.045 [1.14]      |
| TJ71UEB470L                                                | 47.0      | ± 15     | 0.020        | 10.8                 | 46.66                   | 3.57                                            | 35.69          | 5.77           | 31.73          | 8.24           | 27.76          | 10.71          | 23.79          | 0.045 [1.14]      |
| TJ71UEB560L                                                | 56.0      | ± 15     | 0.022        | 10.5                 | 54.76                   | 3.29                                            | 41.89          | 5.32           | 37.23          | 7.60           | 32.58          | 9.88           | 27.93          | 0.045 [1.14]      |
| TJ71UEB680L                                                | 68.0      | ± 15     | 0.024        | 10.0                 | 68.12                   | 2.95                                            | 52.11          | 4.77           | 46.32          | 6.82           | 40.53          | 8.86           | 34.74          | 0.045 [1.14]      |
| TJ71UEB820L                                                | 82.0      | ± 15     | 0.026        | 9.6                  | 82.94                   | 2.68                                            | 63.45          | 4.32           | 56.40          | 6.18           | 49.35          | 8.03           | 42.30          | 0.045 [1.14]      |
| TJ71UEB101L                                                | 100.0     | ± 15     | 0.027        | 9.2                  | 99.23                   | 2.45                                            | 75.91          | 3.95           | 67.47          | 5.65           | 59.04          | 7.34           | 50.60          | 0.045 [1.14]      |
| TJ71UEB121L                                                | 120.0     | ± 15     | 0.030        | 8.9                  | 116.96                  | 2.25                                            | 89.48          | 3.64           | 79.54          | 5.20           | 69.59          | 6.76           | 59.65          | 0.045 [1.14]      |
| TJ71UEB151L                                                | 150.0     | ± 15     | 0.033        | 8.6                  | 149.77                  | 1.99                                            | 114.57         | 3.22           | 101.84         | 4.60           | 89.11          | 5.98           | 76.38          | 0.045 [1.14]      |
| TJ71UEB181L                                                | 180.0     | ± 15     | 0.036        | 8.5                  | 178.93                  | 1.82                                            | 136.88         | 2.94           | 121.67         | 4.21           | 106.46         | 5.47           | 91.25          | 0.045 [1.14]      |
| TJ71UEB221L                                                | 220.0     | ± 15     | 0.040        | 8.4                  | 219.02                  | 1.65                                            | 167.55         | 2.66           | 148.94         | 3.80           | 130.32         | 4.94           | 111.70         | 0.045 [1.14]      |
| TJ71UEB271L                                                | 270.0     | ± 15     | 0.046        | 8.3                  | 272.48                  | 1.48                                            | 208.45         | 2.39           | 185.29         | 3.41           | 162.13         | 4.43           | 138.97         | 0.045 [1.14]      |
| TJ71UEB331L                                                | 330.0     | ± 15     | 0.051        | 8.2                  | 331.78                  | 1.34                                            | 253.81         | 2.16           | 225.61         | 3.09           | 197.41         | 4.02           | 169.21         | 0.045 [1.14]      |

**Note**

- The DC current values listed are typical values that drop the nominal inductance by the percent listed



| STANDARD ELECTRICAL SPECIFICATIONS in inches [millimeters] |           |          |              |                      |                         |                                                 |                |                |                |                |                |                |                |                   |
|------------------------------------------------------------|-----------|----------|--------------|----------------------|-------------------------|-------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| PART NUMBER                                                | IND. (μH) | TOL. (%) | DCR NOM. (Ω) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA (μH) | INDUCTANCE SHIFT WITH DC CURRENT <sup>(1)</sup> |                |                |                |                |                |                |                | LEAD DIAMETER "A" |
|                                                            |           |          |              |                      |                         | 10 % DRO P (A)                                  | IND. MIN. (μH) | 20 % DRO P (A) | IND. MIN. (μH) | 30 % DRO P (A) | IND. MIN. (μH) | 40 % DRO P (A) | IND. MIN. (μH) |                   |
| TJ71UEB391L                                                | 390.0     | ± 15     | 0.053        | 7.9                  | 385.64                  | 1.24                                            | 295.02         | 2.01           | 262.24         | 2.86           | 229.46         | 3.72           | 196.68         | 0.045 [1.14]      |
| TJ71UEB471L                                                | 470.0     | ± 15     | 0.060        | 7.5                  | 467.86                  | 1.13                                            | 357.91         | 1.82           | 318.14         | 2.60           | 278.37         | 3.38           | 238.61         | 0.045 [1.14]      |
| TJ71UEB561L                                                | 560.0     | ± 15     | 0.066        | 7.2                  | 558.01                  | 1.03                                            | 426.88         | 1.67           | 379.45         | 2.38           | 332.02         | 3.10           | 284.58         | 0.045 [1.14]      |
| TJ71UEB681L                                                | 680.0     | ± 15     | 0.090        | 5.9                  | 685.58                  | 0.93                                            | 524.47         | 1.50           | 466.20         | 2.15           | 407.92         | 2.79           | 349.65         | 0.040 [1.02]      |
| TJ71UEB821L                                                | 820.0     | ± 15     | 0.101        | 5.6                  | 826.28                  | 0.85                                            | 632.10         | 1.37           | 561.87         | 1.96           | 491.64         | 2.54           | 421.40         | 0.040 [1.02]      |
| TJ71UEB102L                                                | 1000.0    | ± 15     | 0.136        | 4.7                  | 998.00                  | 0.77                                            | 763.47         | 1.25           | 678.64         | 1.78           | 593.81         | 2.32           | 508.98         | 0.036 [0.914]     |
| TJ71UEB122L                                                | 1200.0    | ± 15     | 0.152        | 4.4                  | 1205.60                 | 0.70                                            | 922.29         | 1.13           | 819.81         | 1.62           | 717.33         | 2.11           | 614.86         | 0.036 [0.914]     |
| TJ71UEB152L                                                | 1500.0    | ± 15     | 0.174        | 4.2                  | 1498.18                 | 0.63                                            | 1146.10        | 1.02           | 1018.76        | 1.45           | 891.41         | 1.89           | 764.07         | 0.036 [0.914]     |
| TJ71UEB182L                                                | 1800.0    | ± 15     | 0.233        | 3.5                  | 1798.28                 | 0.57                                            | 1375.68        | 0.93           | 1222.83        | 1.33           | 1069.98        | 1.72           | 917.12         | 0.032 [0.813]     |
| TJ71UEB222L                                                | 2200.0    | ± 15     | 0.263        | 3.3                  | 2205.23                 | 0.52                                            | 1687.00        | 0.84           | 1499.55        | 1.20           | 1312.11        | 1.56           | 1124.66        | 0.032 [0.813]     |
| TJ71UEB272L                                                | 2700.0    | ± 15     | 0.359        | 2.7                  | 2712.61                 | 0.47                                            | 2075.15        | 0.76           | 1844.57        | 1.08           | 1614.00        | 1.40           | 1383.43        | 0.029 [0.737]     |
| TJ81UEB1R5M                                                | 1.5       | ± 20     | 0.005        | 18.5                 | 1.60                    | 26.12                                           | 1.22           | 42.20          | 1.09           | 60.28          | 0.95           | 78.36          | 0.82           | 0.051 [1.30]      |
| TJ81UEB2R7M                                                | 2.7       | ± 20     | 0.006        | 18.5                 | 2.50                    | 20.90                                           | 1.91           | 33.76          | 1.70           | 48.22          | 1.49           | 62.69          | 1.28           | 0.051 [1.30]      |
| TJ81UEB3R9M                                                | 3.9       | ± 20     | 0.007        | 18.5                 | 3.60                    | 17.41                                           | 2.75           | 28.13          | 2.45           | 40.19          | 2.14           | 52.24          | 1.84           | 0.051 [1.30]      |
| TJ81UEB4R7L                                                | 4.7       | ± 15     | 0.008        | 18.5                 | 4.90                    | 14.93                                           | 3.75           | 24.11          | 3.33           | 34.45          | 2.92           | 44.78          | 2.50           | 0.051 [1.30]      |
| TJ81UEB6R8M                                                | 6.8       | ± 20     | 0.009        | 18.5                 | 6.40                    | 13.06                                           | 4.90           | 21.10          | 4.35           | 30.14          | 3.81           | 39.18          | 3.26           | 0.051 [1.30]      |
| TJ81UEB8R2L                                                | 8.2       | ± 15     | 0.010        | 18.5                 | 8.10                    | 11.61                                           | 6.20           | 18.75          | 5.51           | 26.79          | 4.82           | 34.83          | 4.13           | 0.051 [1.30]      |
| TJ81UEB100L                                                | 10.0      | ± 15     | 0.011        | 18.5                 | 10.00                   | 10.45                                           | 7.65           | 16.88          | 6.80           | 24.11          | 5.95           | 31.35          | 5.10           | 0.051 [1.30]      |
| TJ81UEB120L                                                | 12.0      | ± 15     | 0.012        | 18.0                 | 12.10                   | 9.50                                            | 9.26           | 15.34          | 8.23           | 21.92          | 7.20           | 28.50          | 6.17           | 0.051 [1.30]      |
| TJ81UEB150M                                                | 15.0      | ± 20     | 0.013        | 17.3                 | 14.40                   | 8.71                                            | 11.02          | 14.07          | 9.79           | 20.09          | 8.57           | 26.12          | 7.34           | 0.051 [1.30]      |
| TJ81UEB180M                                                | 18.0      | ± 20     | 0.014        | 16.6                 | 16.90                   | 8.04                                            | 12.93          | 12.98          | 11.49          | 18.55          | 10.06          | 24.11          | 8.62           | 0.051 [1.30]      |
| TJ81UEB220L                                                | 22.0      | ± 15     | 0.015        | 15.5                 | 22.50                   | 6.97                                            | 17.21          | 11.25          | 15.30          | 16.07          | 13.39          | 20.90          | 11.48          | 0.051 [1.30]      |
| TJ81UEB270L                                                | 27.0      | ± 15     | 0.016        | 15.0                 | 25.60                   | 6.53                                            | 19.58          | 10.55          | 17.41          | 15.07          | 15.23          | 19.59          | 13.06          | 0.051 [1.30]      |
| TJ81UEB330L                                                | 33.0      | ± 15     | 0.017        | 14.1                 | 32.40                   | 5.80                                            | 24.79          | 9.38           | 22.03          | 13.40          | 19.28          | 17.41          | 16.52          | 0.051 [1.30]      |
| TJ81UEB390L                                                | 39.0      | ± 15     | 0.019        | 13.4                 | 40.00                   | 5.22                                            | 30.60          | 8.44           | 27.20          | 12.06          | 23.80          | 15.67          | 20.40          | 0.051 [1.30]      |
| TJ81UEB470L                                                | 47.0      | ± 15     | 0.021        | 12.8                 | 48.40                   | 4.75                                            | 37.03          | 7.67           | 32.91          | 10.96          | 28.80          | 14.25          | 24.68          | 0.051 [1.30]      |
| TJ81UEB560L                                                | 56.0      | ± 15     | 0.022        | 12.2                 | 57.60                   | 4.35                                            | 44.06          | 7.03           | 39.17          | 10.05          | 34.27          | 13.06          | 29.38          | 0.051 [1.30]      |
| TJ81UEB680L                                                | 68.0      | ± 15     | 0.024        | 11.7                 | 67.60                   | 4.02                                            | 51.71          | 6.49           | 45.97          | 9.27           | 40.22          | 12.06          | 34.48          | 0.051 [1.30]      |
| TJ81UEB820L                                                | 82.0      | ± 15     | 0.025        | 11.1                 | 84.10                   | 3.60                                            | 64.34          | 5.82           | 57.19          | 8.31           | 50.04          | 10.81          | 42.89          | 0.051 [1.30]      |
| TJ81UEB101L                                                | 100.0     | ± 15     | 0.027        | 10.6                 | 102.40                  | 3.27                                            | 78.34          | 5.27           | 69.63          | 7.53           | 60.93          | 9.80           | 52.22          | 0.051 [1.30]      |
| TJ81UEB121L                                                | 120.0     | ± 15     | 0.029        | 10.1                 | 122.50                  | 2.99                                            | 93.71          | 4.82           | 83.30          | 6.89           | 72.89          | 8.96           | 62.48          | 0.051 [1.30]      |
| TJ81UEB151L                                                | 150.0     | ± 15     | 0.032        | 9.6                  | 152.10                  | 2.68                                            | 116.36         | 4.33           | 103.43         | 6.18           | 90.50          | 8.04           | 77.57          | 0.051 [1.30]      |
| TJ81UEB181L                                                | 180.0     | ± 15     | 0.034        | 9.2                  | 176.40                  | 2.49                                            | 134.95         | 4.02           | 119.95         | 5.74           | 104.96         | 7.46           | 89.96          | 0.051 [1.30]      |
| TJ81UEB221L                                                | 220.0     | ± 15     | 0.036        | 8.7                  | 220.90                  | 2.22                                            | 168.99         | 3.59           | 150.21         | 5.13           | 131.44         | 6.67           | 112.66         | 0.051 [1.30]      |
| TJ81UEB271L                                                | 270.0     | ± 15     | 0.040        | 8.3                  | 270.40                  | 2.01                                            | 206.86         | 3.25           | 183.87         | 4.64           | 160.89         | 6.03           | 137.90         | 0.051 [1.30]      |
| TJ81UEB331L                                                | 330.0     | ± 15     | 0.044        | 7.9                  | 324.90                  | 1.83                                            | 248.55         | 2.96           | 220.93         | 4.23           | 193.32         | 5.50           | 165.70         | 0.051 [1.30]      |
| TJ81UEB391L                                                | 390.0     | ± 15     | 0.047        | 7.6                  | 384.40                  | 1.69                                            | 294.07         | 2.72           | 261.39         | 3.89           | 228.72         | 5.06           | 196.04         | 0.051 [1.30]      |
| TJ81UEB471L                                                | 470.0     | ± 15     | 0.053        | 7.2                  | 476.10                  | 1.51                                            | 364.22         | 2.45           | 323.75         | 3.49           | 283.28         | 4.54           | 242.81         | 0.051 [1.30]      |
| TJ81UEB561L                                                | 560.0     | ± 15     | 0.058        | 6.9                  | 562.50                  | 1.39                                            | 430.31         | 2.25           | 382.50         | 3.21           | 334.69         | 4.18           | 286.88         | 0.051 [1.30]      |
| TJ81UEB681L                                                | 680.0     | ± 15     | 0.064        | 6.6                  | 672.40                  | 1.27                                            | 514.39         | 2.06           | 457.23         | 2.94           | 400.08         | 3.82           | 342.92         | 0.051 [1.30]      |
| TJ81UEB821L                                                | 820.0     | ± 15     | 0.071        | 6.2                  | 828.10                  | 1.15                                            | 633.50         | 1.85           | 563.11         | 2.65           | 492.72         | 3.44           | 422.33         | 0.051 [1.30]      |
| TJ81UEB102L                                                | 1000.0    | ± 15     | 0.077        | 6.0                  | 1000.0                  | 1.04                                            | 765.00         | 1.69           | 680.00         | 2.41           | 595.00         | 3.13           | 510.00         | 0.051 [1.30]      |
| TJ81UEB122L                                                | 1200.0    | ± 15     | 0.104        | 5.1                  | 1210.00                 | 0.95                                            | 925.65         | 1.53           | 822.80         | 2.19           | 719.95         | 2.85           | 617.10         | 0.045 [1.14]      |
| TJ81UEB152L                                                | 1500.0    | ± 15     | 0.118        | 4.9                  | 1488.40                 | 0.86                                            | 1138.63        | 1.38           | 1012.11        | 1.98           | 885.60         | 2.57           | 759.08         | 0.045 [1.14]      |
| TJ81UEB182L                                                | 1800.0    | ± 15     | 0.159        | 4.2                  | 1795.60                 | 0.78                                            | 1373.63        | 1.26           | 1221.01        | 1.80           | 1068.38        | 2.34           | 915.76         | 0.040 [1.02]      |
| TJ81UEB222L                                                | 2200.0    | ± 15     | 0.179        | 4.0                  | 2190.40                 | 0.71                                            | 1675.66        | 1.14           | 1489.47        | 1.63           | 1303.29        | 2.12           | 1117.10        | 0.040 [1.02]      |
| TJ81UEB272L                                                | 2700.0    | ± 15     | 0.203        | 3.9                  | 2689.60                 | 0.64                                            | 2057.54        | 1.03           | 1828.93        | 1.47           | 1600.31        | 1.91           | 1371.70        | 0.040 [1.02]      |
| TJ81UEB332L                                                | 3300.0    | ± 15     | 0.277        | 3.3                  | 3312.40                 | 0.57                                            | 2533.99        | 0.93           | 2252.43        | 1.32           | 1970.88        | 1.72           | 1689.32        | 0.036 [0.914]     |
| TJ81UEB392                                                 | 3900.0    | ± 15     | 0.304        | 3.2                  | 3880.90                 | 0.53                                            | 2968.89        | 0.86           | 2639.01        | 1.22           | 2309.14        | 1.59           | 1979.26        | 0.036 [0.914]     |

**Note**

- The DC current values listed are typical values that drop the nominal inductance by the percent listed

**STANDARD ELECTRICAL SPECIFICATIONS** in inches [millimeters]

| PART NUMBER | IND. (μH) | TOL. (%) | DCR NOM. (Ω) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA (μH) | INDUCTANCE SHIFT WITH DC CURRENT <sup>(1)</sup> |                |                |                |                |                |                |                | LEAD DIAMETER "A" |
|-------------|-----------|----------|--------------|----------------------|-------------------------|-------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|
|             |           |          |              |                      |                         | 10 % DRO P (A)                                  | IND. MIN. (μH) | 20 % DRO P (A) | IND. MIN. (μH) | 30 % DRO P (A) | IND. MIN. (μH) | 40 % DRO P (A) | IND. MIN. (μH) |                   |
| TJ91UEB1R5L | 1.5       | ± 15     | 0.004        | 20.0                 | 1.44                    | 50.35                                           | 1.10           | 81.33          | 0.98           | 116.18         | 0.86           | 151.04         | 0.73           | 0.064 [1.63]      |
| TJ91UEB2R7L | 2.7       | ± 15     | 0.005        | 20.0                 | 2.56                    | 37.76                                           | 1.96           | 61.00          | 1.74           | 87.14          | 1.52           | 113.28         | 1.31           | 0.064 [1.63]      |
| TJ91UEB3R9L | 3.9       | ± 15     | 0.006        | 20.0                 | 4.00                    | 30.21                                           | 3.06           | 48.80          | 2.72           | 69.71          | 2.38           | 90.62          | 2.04           | 0.064 [1.63]      |
| TJ91UEB5R6L | 5.6       | ± 15     | 0.007        | 20.0                 | 5.76                    | 25.17                                           | 4.41           | 40.66          | 3.92           | 58.09          | 3.43           | 75.52          | 2.94           | 0.064 [1.63]      |
| TJ91UEB8R2L | 8.2       | ± 15     | 0.008        | 20.0                 | 7.84                    | 21.58                                           | 6.00           | 34.85          | 5.33           | 49.79          | 4.66           | 64.73          | 4.00           | 0.064 [1.63]      |
| TJ91UEB100L | 10.0      | ± 15     | 0.009        | 20.0                 | 10.24                   | 18.88                                           | 7.83           | 30.50          | 6.96           | 43.57          | 6.09           | 56.64          | 5.22           | 0.064 [1.63]      |
| TJ91UEB120M | 12.0      | ± 20     | 0.010        | 20.0                 | 12.96                   | 16.78                                           | 9.91           | 27.11          | 8.81           | 38.73          | 7.71           | 50.35          | 6.61           | 0.064 [1.63]      |
| TJ91UEB150M | 15.0      | ± 20     | 0.011        | 20.0                 | 16.00                   | 15.10                                           | 12.24          | 24.40          | 10.88          | 34.85          | 9.52           | 45.31          | 8.16           | 0.064 [1.63]      |
| TJ91UEB180M | 18.0      | ± 20     | 0.012        | 20.0                 | 19.36                   | 13.73                                           | 14.81          | 22.18          | 13.16          | 31.69          | 11.52          | 41.19          | 9.87           | 0.064 [1.63]      |
| TJ91UEB220M | 22.0      | ± 20     | 0.013        | 20.0                 | 23.04                   | 12.59                                           | 17.63          | 20.33          | 15.67          | 29.05          | 13.71          | 37.76          | 11.75          | 0.064 [1.63]      |
| TJ91UEB270L | 27.0      | ± 15     | 0.014        | 20.0                 | 27.04                   | 11.62                                           | 20.69          | 18.77          | 18.39          | 26.81          | 16.09          | 34.85          | 13.79          | 0.064 [1.63]      |
| TJ91UEB330L | 33.0      | ± 15     | 0.015        | 20.0                 | 31.36                   | 10.79                                           | 23.99          | 17.43          | 21.32          | 24.90          | 18.66          | 32.37          | 15.99          | 0.064 [1.63]      |
| TJ91UEB390M | 39.0      | ± 20     | 0.016        | 20.0                 | 40.96                   | 9.44                                            | 31.33          | 15.25          | 27.85          | 21.78          | 24.37          | 28.32          | 20.89          | 0.064 [1.63]      |
| TJ91UEB470L | 47.0      | ± 15     | 0.017        | 20.0                 | 46.24                   | 8.88                                            | 35.37          | 14.35          | 31.44          | 20.50          | 27.51          | 26.65          | 23.58          | 0.064 [1.63]      |
| TJ91UEB560L | 56.0      | ± 15     | 0.018        | 19.9                 | 57.76                   | 7.95                                            | 44.19          | 12.84          | 39.28          | 18.34          | 34.37          | 23.85          | 29.46          | 0.064 [1.63]      |
| TJ91UEB680L | 68.0      | ± 15     | 0.019        | 19.0                 | 70.56                   | 7.19                                            | 53.98          | 11.62          | 47.98          | 16.60          | 41.98          | 21.58          | 35.99          | 0.064 [1.63]      |
| TJ91UEB820L | 82.0      | ± 15     | 0.020        | 18.3                 | 84.64                   | 6.57                                            | 64.75          | 10.61          | 57.56          | 15.15          | 50.36          | 19.70          | 43.17          | 0.064 [1.63]      |
| TJ91UEB101L | 100.0     | ± 15     | 0.021        | 17.6                 | 100.00                  | 6.04                                            | 76.50          | 9.76           | 68.00          | 13.94          | 59.50          | 18.12          | 51.00          | 0.064 [1.63]      |
| TJ91UEB121L | 120.0     | ± 15     | 0.022        | 17.0                 | 116.64                  | 5.59                                            | 89.23          | 9.04           | 79.32          | 12.91          | 69.40          | 16.78          | 59.49          | 0.064 [1.63]      |
| TJ91UEB151L | 150.0     | ± 15     | 0.025        | 15.9                 | 153.76                  | 4.87                                            | 117.63         | 7.87           | 104.56         | 11.24          | 91.49          | 14.62          | 78.42          | 0.064 [1.63]      |
| TJ91UEB181L | 180.0     | ± 15     | 0.028        | 15.3                 | 184.96                  | 4.44                                            | 141.49         | 7.18           | 125.77         | 10.25          | 110.05         | 13.33          | 94.33          | 0.064 [1.63]      |
| TJ91UEB221L | 220.0     | ± 15     | 0.030        | 14.7                 | 219.04                  | 4.08                                            | 167.57         | 6.59           | 148.95         | 9.42           | 130.33         | 12.25          | 111.71         | 0.064 [1.63]      |
| TJ91UEB271L | 270.0     | ± 15     | 0.033        | 14.0                 | 268.96                  | 3.68                                            | 205.75         | 5.95           | 182.89         | 8.50           | 160.03         | 11.05          | 137.17         | 0.064 [1.63]      |
| TJ91UEB331L | 330.0     | ± 15     | 0.036        | 13.4                 | 324.00                  | 3.36                                            | 247.86         | 5.42           | 220.32         | 7.75           | 192.78         | 10.07          | 165.24         | 0.064 [1.63]      |
| TJ91UEB391L | 390.0     | ± 15     | 0.038        | 12.9                 | 384.16                  | 3.08                                            | 293.88         | 4.98           | 261.23         | 7.11           | 228.58         | 9.25           | 195.92         | 0.064 [1.63]      |
| TJ91UEB471L | 470.0     | ± 15     | 0.042        | 12.4                 | 466.56                  | 2.80                                            | 356.92         | 4.52           | 317.26         | 6.45           | 277.60         | 8.39           | 237.95         | 0.064 [1.63]      |
| TJ91UEB561L | 560.0     | ± 15     | 0.043        | 11.9                 | 556.96                  | 2.56                                            | 426.07         | 4.14           | 378.73         | 5.91           | 331.39         | 7.68           | 284.05         | 0.064 [1.63]      |
| TJ91UEB681L | 680.0     | ± 15     | 0.048        | 11.3                 | 676.00                  | 2.32                                            | 517.14         | 3.75           | 459.68         | 5.36           | 402.22         | 6.97           | 344.76         | 0.064 [1.63]      |
| TJ91UEB821L | 820.0     | ± 15     | 0.054        | 10.7                 | 829.44                  | 2.10                                            | 634.52         | 3.39           | 564.02         | 4.84           | 493.52         | 6.29           | 423.01         | 0.064 [1.63]      |
| TJ91UEB102L | 1000.0    | ± 15     | 0.059        | 10.3                 | 998.56                  | 1.91                                            | 763.90         | 3.09           | 679.02         | 4.41           | 594.14         | 5.74           | 509.27         | 0.064 [1.63]      |
| TJ91UEB122L | 1200.0    | ± 15     | 0.082        | 9.8                  | 1211.04                 | 1.74                                            | 926.45         | 2.80           | 823.51         | 4.01           | 720.57         | 5.21           | 617.63         | 0.057 [1.45]      |
| TJ91UEB152L | 1500.0    | ± 15     | 0.091        | 9.3                  | 1505.44                 | 1.56                                            | 1151.66        | 2.52           | 1023.70        | 3.59           | 895.74         | 4.67           | 767.77         | 0.057 [1.45]      |
| TJ91UEB182L | 1800.0    | ± 15     | 0.118        | 8.9                  | 1797.76                 | 1.42                                            | 1375.29        | 2.30           | 1222.48        | 3.29           | 1069.67        | 4.27           | 916.86         | 0.051 [1.30]      |
| TJ91UEB222L | 2200.0    | ± 15     | 0.131        | 8.4                  | 2190.24                 | 1.29                                            | 1675.53        | 2.09           | 1489.36        | 2.98           | 1303.19        | 3.87           | 1117.02        | 0.051 [1.30]      |
| TJ91UEB272L | 2700.0    | ± 15     | 0.147        | 8.0                  | 2704.00                 | 1.16                                            | 2068.56        | 1.88           | 1838.72        | 2.68           | 1608.88        | 3.49           | 1379.04        | 0.051 [1.30]      |
| TJ91UEB332L | 3300.0    | ± 15     | 0.165        | 7.6                  | 3317.76                 | 1.05                                            | 2538.09        | 1.69           | 2256.08        | 2.42           | 1974.07        | 3.15           | 1692.06        | 0.051 [1.30]      |
| TJ91UEB392L | 3900.0    | ± 15     | 0.181        | 5.2                  | 3893.76                 | 0.97                                            | 2978.73        | 1.56           | 2647.76        | 2.23           | 2316.79        | 2.90           | 1985.82        | 0.051 [1.30]      |
| TJ91UEB472L | 4700.0    | ± 15     | 0.201        | 5.1                  | 4678.56                 | 0.88                                            | 3579.10        | 1.43           | 3181.42        | 2.04           | 2783.74        | 2.65           | 2386.07        | 0.051 [1.30]      |
| TJ91UEB562L | 5600.0    | ± 15     | 0.224        | 5.0                  | 5595.04                 | 0.81                                            | 4280.21        | 1.30           | 3804.63        | 1.86           | 3329.05        | 2.42           | 2853.47        | 0.051 [1.30]      |

**Note**

- The DC current values listed are typical values that drop the nominal inductance by the percent listed

**MARKING**

- Vishay Dale
- Model number
- Date code



**ORDERING INFORMATION**

|            |                  |                              |                              |                 |                                   |
|------------|------------------|------------------------------|------------------------------|-----------------|-----------------------------------|
| <b>TJ5</b> | <b>1U</b>        | <b>330 <math>\mu</math>H</b> | <b><math>\pm 15\%</math></b> | <b>EB</b>       | <b>e2</b>                         |
| MODEL      | MOUNTING<br>CODE | INDUCTANCE<br>VALUE          | INDUCTANCE<br>TOLERANCE      | PACKAGE<br>CODE | JEDEC®<br>LEAD (Pb)-FREE STANDARD |

**GLOBAL PART NUMBER**

**T J 5**  
MODEL

**1 U**  
MOUNTING CODE

**E B**  
PACKAGE  
CODE

**3 3 1**  
INDUCTANCE  
VALUE

**L**  
INDUCTANCE  
TOLERANCE

**1U** = vertical mount  
**2U** = horizontal mount

**331** = 330  $\mu$ H

**L** =  $\pm 15\%$



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