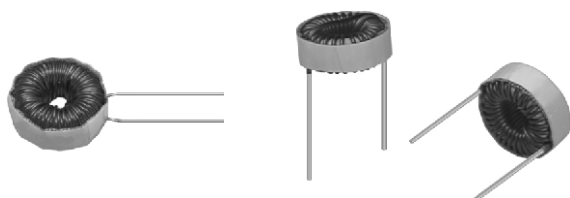


Inductors, Toroid, High Current, Radial Leaded



FEATURES

- Printed circuit mounting
- Wide range of inductance and current ratings
- Toroid design reduces EMI
- Vertical or horizontal mounting to optimize P.C. board layout
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

APPLICATION

Switching power supplies, EMI/RFI filtering, output chokes

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

Notes

- On larger units and units with finer wire, additional mechanical mounting is recommended.
- (1) 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 (μ H) ⁽¹⁾ | DC RESISTANCE RANGE (Ω) ⁽²⁾ | RATED CURRENT RANGE (A) ⁽³⁾ |
|-------|-----------------------------------------------|----------------------------------------------------|-------------------------------------------|
| 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

(1) Measured at 0.25 V_{RMS} at 10 kHz

(2) DC resistance measured at + 25 °C \pm 5 °C

(3) Maximum continuous operating current based on a calculated temperature rise of 40 °C

STANDARD ELECTRICAL SPECIFICATIONS in inches [millimeters]

| MODEL | IND. (μ H) | TOL. (%) | DCR NOM. (Ω) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA (μ H) | INDUCTANCE SHIFT WITH DC CURRENT ⁽¹⁾ | | | | | | | | LEAD DIAMETER "A" |
|--------|--------------------|-------------|-----------------------------|-------------------------------|-------------------------------------------|-------------------------------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|-------------------------|
| | | | | | | 10 % CURRENT (A) | IND. MIN. (μ H) | 20 % CURRENT (A) | IND. MIN. (μ H) | 30 % CURRENT (A) | IND. MIN. (μ H) | 40 % CURRENT (A) | IND. MIN. (μ H) | |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 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] |
| TJ3-XX | 150.0 | \pm 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] |
| TJ3-XX | 180.0 | \pm 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] |
| TJ3-XX | 220.0 | \pm 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] |
| TJ3-XX | 270.0 | \pm 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] |
| TJ3-XX | 330.0 | \pm 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] |
| TJ3-XX | 390.0 | \pm 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] |
| TJ3-XX | 470.0 | \pm 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] |
| TJ3-XX | 560.0 | \pm 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] |
| TJ3-XX | 680.0 | \pm 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] |
| TJ3-XX | 820.0 | \pm 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] |
| TJ3-XX | 1000.0 | \pm 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] |
| TJ3-XX | 1200.0 | \pm 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] |
| TJ3-XX | 1500.0 | \pm 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] |

Note

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

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

| MODEL | IND. (μ H) | TOL. (%) | DCR NOM. (Ω) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA (μ H) | INDUCTANCE SHIFT WITH DC CURRENT ⁽¹⁾ | | | | | | | | LEAD DIAMETER "A" |
|--------|--------------------|-------------|-----------------------------|-------------------------------|-------------------------------------------|-------------------------------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|-------------------------|
| | | | | | | 10 % CURRENT (A) | IND. MIN. (μ H) | 20 % CURRENT (A) | IND. MIN. (μ H) | 30 % CURRENT (A) | IND. MIN. (μ H) | 40 % CURRENT (A) | IND. MIN. (μ H) | |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ4-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |

Note

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

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

| MODEL | IND. (μ H) | TOL. (%) | DCR NOM. (Ω) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA (μ H) | INDUCTANCE SHIFT WITH DC CURRENT ⁽¹⁾ | | | | | | | | LEAD DIAMETER "A" |
|--------|--------------------|-------------|-----------------------------|-------------------------------|-------------------------------------------|-------------------------------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|-------------------------|
| | | | | | | 10 % CURRENT (A) | IND. MIN. (μ H) | 20 % CURRENT (A) | IND. MIN. (μ H) | 30 % CURRENT (A) | IND. MIN. (μ H) | 40 % CURRENT (A) | IND. MIN. (μ H) | |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ5-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |
| TJ6-XX | 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] |

Note

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

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

| MODEL | IND. (μ H) | TOL. (%) | DCR NOM. (Ω) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA (μ H) | INDUCTANCE SHIFT WITH DC CURRENT ⁽¹⁾ | | | | | | | | LEAD DIAMETER "A" |
|--------|--------------------|-------------|-----------------------------|-------------------------------|-------------------------------------------|-------------------------------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|-------------------------|
| | | | | | | 10 % CURRENT (A) | IND. MIN. (μ H) | 20 % CURRENT (A) | IND. MIN. (μ H) | 30 % CURRENT (A) | IND. MIN. (μ H) | 40 % CURRENT (A) | IND. MIN. (μ H) | |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ7-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |

Note

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

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

| MODEL | IND. (μH) | TOL. (%) | DCR NOM. (Ω) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA (μH) | INDUCTANCE SHIFT WITH DC CURRENT ⁽¹⁾ | | | | | | | | LEAD DIAMETER "A" |
|--------|--------------|-------------|--------------------|-------------------------------|-------------------------------------|-------------------------------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|-------------------------|
| | | | | | | 10 % CURRENT (A) | IND. MIN. (μH) | 20 % CURRENT (A) | IND. MIN. (μH) | 30 % CURRENT (A) | IND. MIN. (μH) | 40 % CURRENT (A) | IND. MIN. (μH) | |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ8-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |

Note

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

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

| MODEL | IND. (μ H) | TOL. (%) | DCR NOM. (Ω) | RATED DC CURRENT (A) | IND. NOM. AT 0 DCA (μ H) | INDUCTANCE SHIFT WITH DC CURRENT ⁽¹⁾ | | | | | | | | LEAD DIAMETER "A" |
|--------|--------------------|-------------|-----------------------------|-------------------------------|-------------------------------------------|-------------------------------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|-------------------------|
| | | | | | | 10 % CURRENT (A) | IND. MIN. (μ H) | 20 % CURRENT (A) | IND. MIN. (μ H) | 30 % CURRENT (A) | IND. MIN. (μ H) | 40 % CURRENT (A) | IND. MIN. (μ H) | |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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] |
| TJ9-XX | 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

| TJ5 | 1U | 330 μ H | ± 15 % | EB | e2 |
|-------|--------------------------|---------------------|-------------------------|-----------------|----------------------------------|
| MODEL | MOUNTING/COATING CODE | INDUCTANCE VALUE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC LEAD (Pb)-FREE STANDARD |

GLOBAL PART NUMBER

| | | | | | | | | | | |
|----------|----------|----------|--------------------------|----------|-----------------|----------|---------------------|----------|----------|-------------------------|
| T | J | 5 | 1 | U | E | B | 3 | 3 | 1 | L |
| MODEL | | | MOUNTING/COATING CODE | | PACKAGE CODE | | INDUCTANCE VALUE | | | INDUCTANCE TOLERANCE |



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