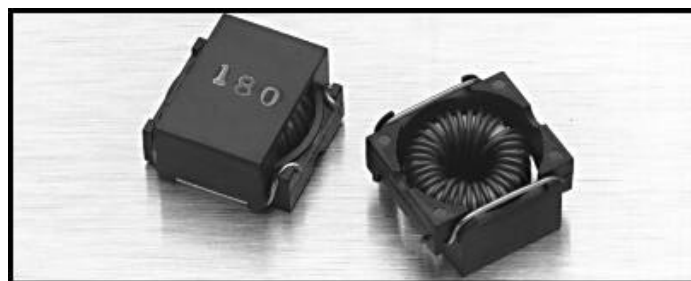
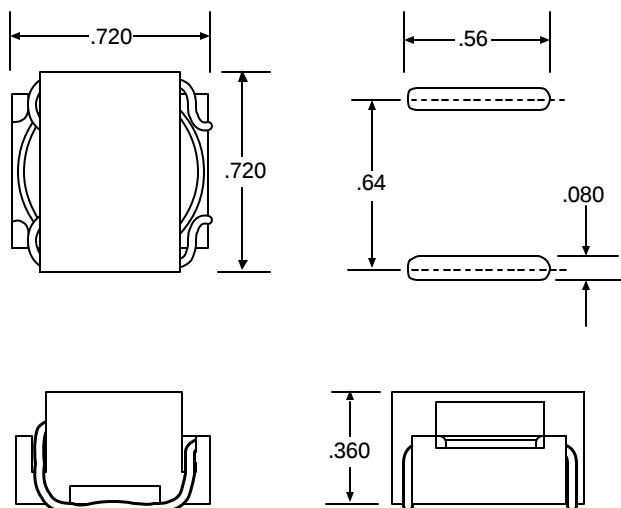


# Surface Mount Toroids TL3



## GENERAL CHARACTERISTICS

- Suited for IR and vapor reflow solder process
- Rated up to 130°C operating temperature (ambient plus temperature rise)
- Packaging in Bulk or Tape and Reel
- Custom designs available upon request

### Notes:

- (1) Maximum Operating Current based on a temperature rise of 40°C.
- (2) Inductance measured at 10Khz, .25 Vrms.
- (3) DC Resistance measured at +25°C.
- (4) Incremental Current based on 10% drop in inductance.

| PART NUMBER | INDUCTANCE<br>( $\mu\text{H} \pm 15\%$ ) (2) | DC RESISTANCE<br>OHMS<br>MAXIMUM (w) (3) | RATED DC<br>CURRENT<br>MAXIMUM (1) | INCREMENTAL<br>CURRENT (4) | INDUCTANCE<br>MINIMUM<br>( $\mu\text{H}$ ) |
|-------------|----------------------------------------------|------------------------------------------|------------------------------------|----------------------------|--------------------------------------------|
| TL3-1R2     | 1.2                                          | 0.006                                    | 10.00                              | 8.90                       | 0.81                                       |
| TL3-1R5     | 1.5                                          | 0.006                                    | 9.50                               | 7.60                       | 1.10                                       |
| TL3-2R2     | 2.2                                          | 0.007                                    | 9.00                               | 6.60                       | 1.44                                       |
| TL3-2R7     | 2.7                                          | 0.008                                    | 8.40                               | 5.90                       | 1.82                                       |
| TL3-3R3     | 3.3                                          | 0.008                                    | 8.20                               | 5.30                       | 2.24                                       |
| TL3-3R9     | 3.9                                          | 0.009                                    | 7.90                               | 4.80                       | 2.72                                       |
| TL3-4R7     | 4.7                                          | 0.010                                    | 7.50                               | 4.40                       | 3.23                                       |
| TL3-5R6     | 5.6                                          | 0.011                                    | 7.30                               | 4.10                       | 3.79                                       |
| TL3-6R8     | 6.8                                          | 0.011                                    | 7.10                               | 3.80                       | 4.40                                       |
| TL3-8R2     | 8.2                                          | 0.013                                    | 6.60                               | 3.30                       | 5.74                                       |
| TL3-100     | 10                                           | 0.013                                    | 6.50                               | 3.10                       | 6.49                                       |
| TL3-120     | 12                                           | 0.015                                    | 6.10                               | 2.80                       | 8.10                                       |
| TL3-150     | 15                                           | 0.016                                    | 5.90                               | 2.50                       | 9.90                                       |
| TL3-180     | 18                                           | 0.017                                    | 5.00                               | 2.30                       | 11.07                                      |
| TL3-220     | 22                                           | 0.024                                    | 4.60                               | 2.00                       | 15.17                                      |
| TL3-270     | 27                                           | 0.026                                    | 4.40                               | 1.80                       | 18.87                                      |
| TL3-330     | 33                                           | 0.029                                    | 4.30                               | 1.60                       | 22.98                                      |
| TL3-390     | 39                                           | 0.038                                    | 3.70                               | 1.50                       | 25.94                                      |
| TL3-470     | 47                                           | 0.043                                    | 3.50                               | 1.40                       | 32.40                                      |
| TL3-560     | 56                                           | 0.057                                    | 3.10                               | 1.30                       | 37.72                                      |
| TL3-680     | 68                                           | 0.063                                    | 3.00                               | 1.10                       | 45.44                                      |
| TL3-820     | 82                                           | 0.087                                    | 2.60                               | 1.00                       | 56.10                                      |
| TL3-101     | 100                                          | 0.097                                    | 2.40                               | 0.97                       | 67.88                                      |
| TL3-121     | 120                                          | 0.107                                    | 2.30                               | 0.89                       | 80.78                                      |
| TL3-151     | 150                                          | 0.146                                    | 1.90                               | 0.80                       | 100.73                                     |
| TL3-181     | 180                                          | 0.164                                    | 1.80                               | 0.70                       | 122.88                                     |
| TL3-221     | 220                                          | 0.225                                    | 1.50                               | 0.65                       | 150.89                                     |
| TL3-271     | 270                                          | 0.250                                    | 1.40                               | 0.59                       | 181.76                                     |
| TL3-331     | 330                                          | 0.342                                    | 1.20                               | 0.50                       | 224.40                                     |
| TL3-391     | 390                                          | 0.378                                    | 1.10                               | 0.49                       | 266.61                                     |
| TL3-471     | 470                                          | 0.510                                    | 1.00                               | 0.45                       | 317.77                                     |
| TL3-561     | 560                                          | 0.565                                    | 0.90                               | 0.40                       | 379.24                                     |
| TL3-681     | 680                                          | 0.637                                    | 0.80                               | 0.37                       | 465.32                                     |
| TL3-821     | 820                                          | 0.849                                    | 0.70                               | 0.34                       | 560.19                                     |
| TL3-102     | 1000                                         | 0.951                                    | 0.70                               | 0.30                       | 679.39                                     |