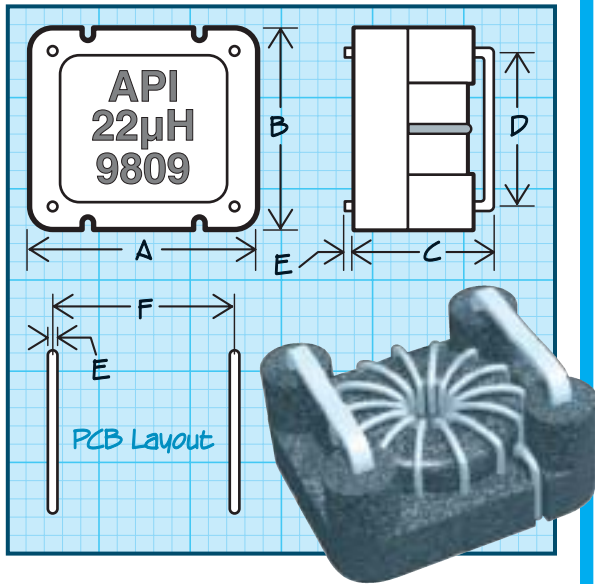


# Series LLST Low Loss Surface Mount Power Toroid



## Physical Parameters

|   | Inches       | Millimeters |
|---|--------------|-------------|
| A | 0.475 ±0.020 | 12.07 ±0.50 |
| B | 0.420 ±0.020 | 10.67 ±0.50 |
| C | 0.290 Max.   | 7.37 Max.   |
| D | 0.400 Ref.   | 7.62 Ref.   |
| E | 0.075 Ref.   | 1.91 Max.   |
| F | 0.375 ±0.020 | 9.53 ±0.50  |

**Operating Temperature Range** -40°C to +125°C

**Power Dissipation** 0.285 Max. (Watts)

**Weight Max.** (Grams) 2.00

**Packaging** Bulk only

| PART NUMBER | SERIES LLST                    |                                                 |                                                 |                   |                 |                             |
|-------------|--------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------|-----------------|-----------------------------|
|             | INDUCTANCE @ 1KHz<br>(µH) ±15% | INCREMENTAL CURRENT<br>Add, 10% Inductance Loss | INCREMENTAL CURRENT<br>Add, 20% Inductance Loss | SRF MINIMUM (MHz) | DCR (Ohms) Max. | CURRENT RATING<br>A dc Max. |
| LLST4R7     | 4.7                            | 4.00                                            | 6.10                                            | 50.0              | 0.035           | 2.600                       |
| LLST10      | 10                             | 2.80                                            | 4.10                                            | 45.0              | 0.050           | 2.250                       |
| LLST15      | 15                             | 2.10                                            | 3.20                                            | 40.0              | 0.055           | 2.150                       |
| LLST18      | 18                             | 1.90                                            | 3.00                                            | 35.0              | 0.060           | 2.050                       |
| LLST22      | 22                             | 1.70                                            | 2.80                                            | 25.0              | 0.070           | 1.900                       |
| LLST25      | 25                             | 1.60                                            | 2.60                                            | 20.0              | 0.080           | 1.780                       |
| LLST27      | 27                             | 1.40                                            | 2.30                                            | 15.0              | 0.080           | 1.780                       |
| LLST33      | 33                             | 1.30                                            | 2.20                                            | 12.0              | 0.080           | 1.780                       |
| LLST47      | 47                             | 1.00                                            | 1.80                                            | 10.0              | 0.120           | 1.450                       |
| LLST75      | 75                             | 0.80                                            | 1.40                                            | 8.0               | 0.180           | 1.190                       |
| LLST100     | 100                            | 0.80                                            | 1.40                                            | 7.0               | 0.250           | 1.000                       |
| LLST125     | 125                            | 0.64                                            | 1.10                                            | 6.0               | 0.250           | 1.000                       |
| LLST140     | 140                            | 0.56                                            | 0.98                                            | 5.0               | 0.250           | 1.000                       |
| LLST150     | 150                            | 0.56                                            | 0.98                                            | 4.0               | 0.260           | 0.985                       |
| LLST175     | 175                            | 0.54                                            | 0.90                                            | 3.5               | 0.325           | 0.890                       |
| LLST200     | 200                            | 0.46                                            | 0.80                                            | 3.2               | 0.400           | 0.795                       |
| LLST220     | 220                            | 0.46                                            | 0.80                                            | 3.0               | 0.400           | 0.795                       |
| LLST270     | 270                            | 0.46                                            | 0.78                                            | 2.5               | 0.500           | 0.710                       |
| LLST300     | 300                            | 0.38                                            | 0.68                                            | 2.0               | 0.500           | 0.710                       |
| LLST350     | 350                            | 0.36                                            | 0.62                                            | 1.9               | 0.625           | 0.650                       |
| LLST400     | 400                            | 0.28                                            | 0.50                                            | 1.8               | 0.700           | 0.600                       |
| LLST450     | 450                            | 0.28                                            | 0.50                                            | 1.7               | 0.850           | 0.550                       |
| LLST500     | 500                            | 0.26                                            | 0.50                                            | 1.5               | 1.000           | 0.500                       |

**Current Rating** Based on a 35° C max. rise from 90°C ambient.

**Material** High Saturation Nickel/Iron Core.

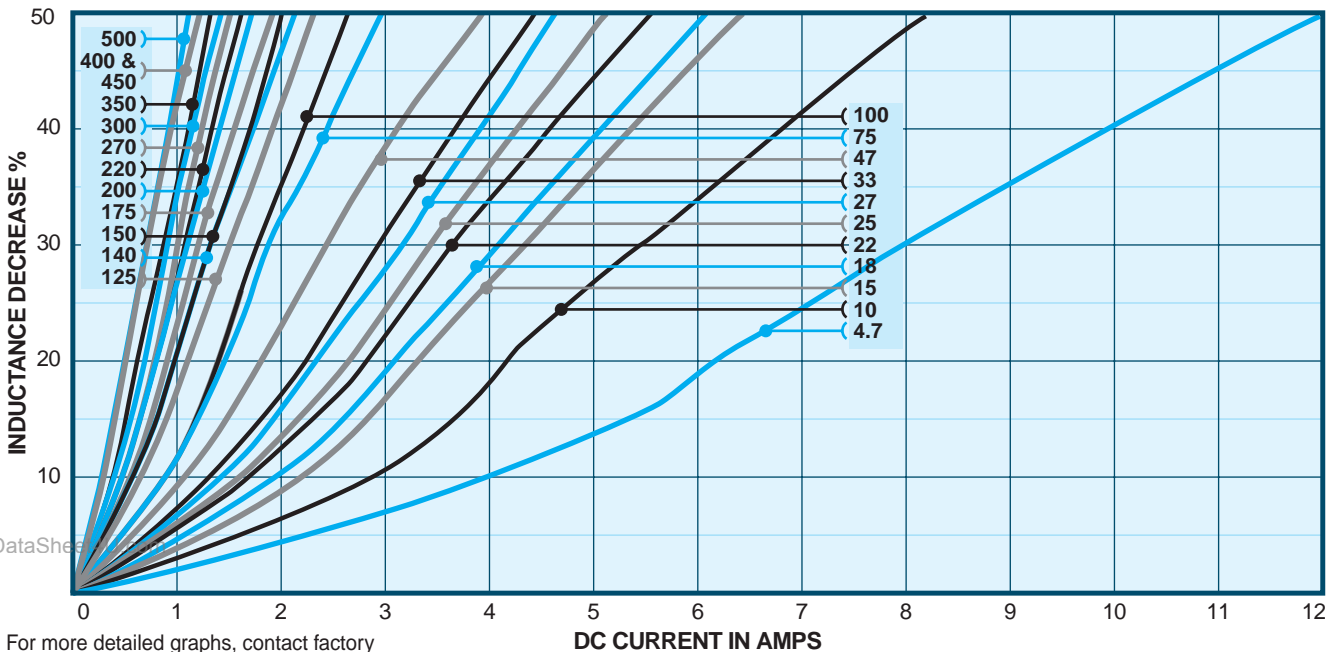
**Inductance** Tested at an AC drive level which does not affect the initial permeability of the core, the DC drive level was 0 amps.

**Incremental Current** The DC current which reduces the inductance value to the percentage drop tabulated.

**Terminals** Coated with a 90/10 tin/lead plating.

**Inductor Base** Formed from a high temperature thermoplastic capable of withstanding approx. 600°F for short periods of time.

**Marking** API, Inductance, and Date Code.



For more detailed graphs, contact factory

DC CURRENT IN AMPS