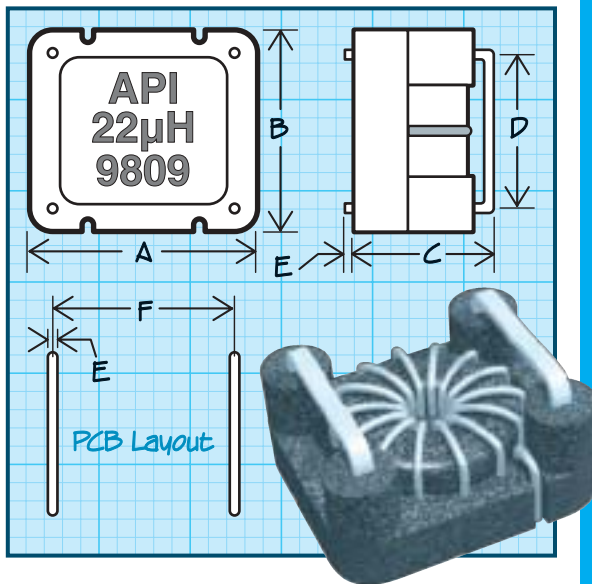


# Series LLST Low Loss Surface Mount Power Toroid



## 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

INDUCTANCE @ 1kHz  
(µH) ±15%

INCREMENTAL CURRENT  
Add, 10% Inductance Loss

INCREMENTAL CURRENT  
Add, 20% Inductance Loss

SRF MINIMUM (MHz)

DCR (Ohms) Max.

CURRENT RATING  
Add Max.

## SERIES LLST

|         |     |      |      |      |       |       |
|---------|-----|------|------|------|-------|-------|
| 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.

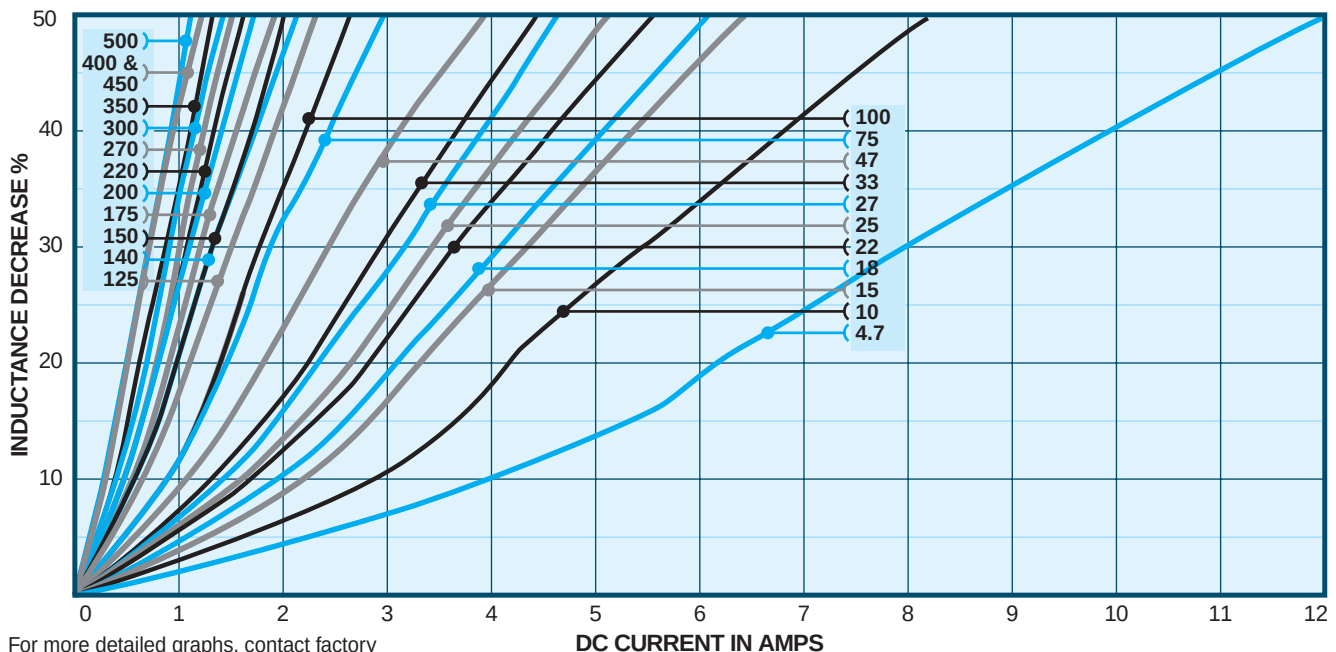
**Inductance** Tested at an AC drive level which does not affect the initial permeability of the core, the DC drive level was 0 amps.

**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