

# SSL0804 Series

## SMD Power Inductors

For SSL series provide excellent current carrying capabilities in a small footprint. They have a flat top for reliable pick and place operations and features robust temperature deflection. In addition to the standard versions shown here, custom inductors are available to meet your exact requirement.

### Applications

- Notebook computers, Sep-up and step-down converters
- Flash, memory programmers. Etc...

### ELECTRICAL CHARACTERISTICS

| PART NO.        | INDUCTANCE<br>( $\mu\text{H} \pm 20\%$ ) * | SRF<br>(MHz) | DC<br>RESISTANCE<br>( $\Omega^{+0}$ ) $\pm 15\%$ | Isat **<br>(A) | Irms ***<br>(A) |
|-----------------|--------------------------------------------|--------------|--------------------------------------------------|----------------|-----------------|
| SSL0804T-1R0M-S | 1.0                                        | 100          | 0.009                                            | 9.0            | 6.8             |
| SSL0804T-1R5M-S | 1.5                                        | 90           | 0.010                                            | 8.0            | 6.4             |
| SSL0804T-2R2M-S | 2.2                                        | 80           | 0.012                                            | 7.0            | 6.1             |
| SSL0804T-3R3M-S | 3.3                                        | 65           | 0.015                                            | 6.4            | 5.4             |
| SSL0804T-4R7M-S | 4.7                                        | 45           | 0.018                                            | 5.4            | 4.8             |
| SSL0804T-6R8M-S | 6.8                                        | 38           | 0.027                                            | 4.6            | 4.4             |
| SSL0804T-100M-S | 10                                         | 30           | 0.038                                            | 3.8            | 3.9             |
| SSL0804T-150M-S | 15                                         | 27           | 0.046                                            | 3.0            | 3.1             |
| SSL0804T-220M-S | 22                                         | 19           | 0.085                                            | 2.6            | 2.7             |
| SSL0804T-330M-S | 33                                         | 15           | 0.10                                             | 2.0            | 2.1             |
| SSL0804T-470M-S | 47                                         | 12           | 0.14                                             | 1.6            | 1.8             |
| SSL0804T-680M-S | 68                                         | 10           | 0.20                                             | 1.4            | 1.5             |
| SSL0804T-101M-S | 100                                        | 9            | 0.28                                             | 1.2            | 1.3             |
| SSL0804T-151M-S | 150                                        | 6            | 0.40                                             | 1.0            | 1.0             |
| SSL0804T-221M-S | 220                                        | 5            | 0.61                                             | 0.8            | 0.8             |
| SSL0804T-331M-S | 330                                        | 4.5          | 1.02                                             | 0.6            | 0.6             |
| SSL0804T-471M-S | 470                                        | 3.5          | 1.27                                             | 0.5            | 0.5             |
| SSL0804T-681M-S | 680                                        | 2.5          | 2.02                                             | 0.4            | 0.4             |
| SSL0804T-102M-S | 1000                                       | 2.0          | 3.0                                              | 0.3            | 0.3             |

\* Inductance Tested at 0.1 Vrms, 100 KHz

\*\* Inductance Drop = 10% Typ. at Isat.

\*\*\*  $\Delta T = 15^\circ\text{C}$  Rise Typ at Irms.

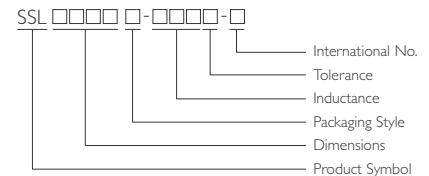
Operating Temperature Range  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$



### Features

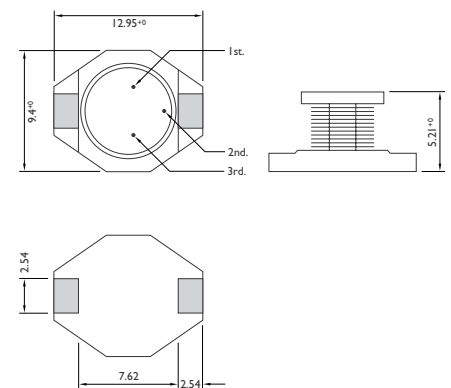
- High energy storage and very low resistance.
- Smallest size and high performance

### PRODUCT IDENTIFICATION



- Packaging: T : Tape and Reel
- Tolerance: M:  $\pm 20\%$
- Note: YAGEO will start to release SSL Series inductors with lead-free terminals which meet SONY SS-00259's criteria for lead-free product in Q2 of 2004, and YAGEO Internal No will be changed to "N" as identification. Ex. SSL04LP-1R2M-N

### SHAPES AND DIMENSIONS



Dimensions : mm