



Self Leaded Inductor - 4200 Series



Description

- Low Profile, self-leaded design
- Suited for IR and vapor reflow solder
- The materials meet UL 94V-0 rating
- Toroid winding virtually eliminates stray electromagnetic emissions.
- Designed for exceptionally high current handling.
- Frequency range up to 1MHz

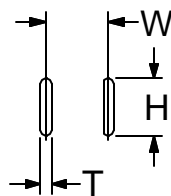
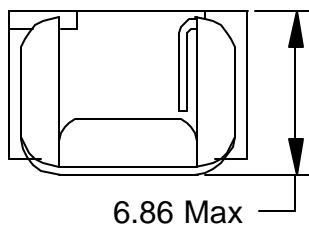
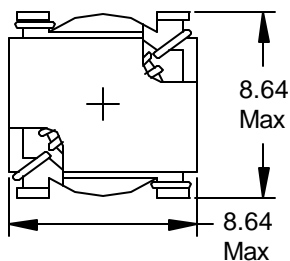


Application

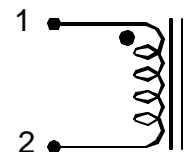
- Laptop & notebook computers

Mechanical Drawing

- SLI 4200-G, SLI 4201-G, SLI 4209-G

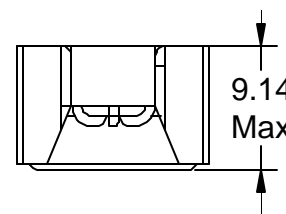
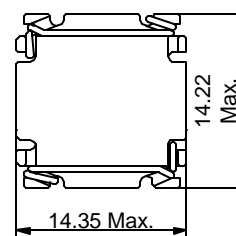
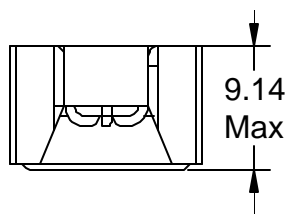
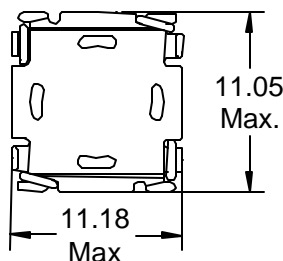


Land Pattern

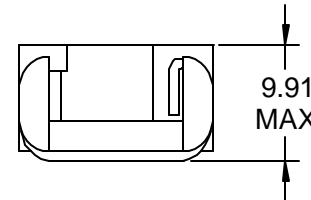
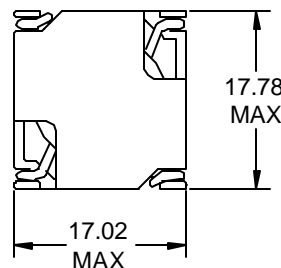
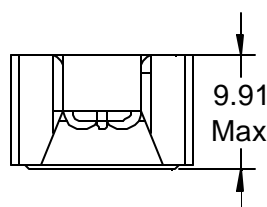
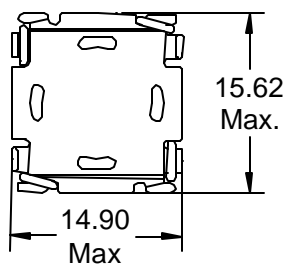


Schematic

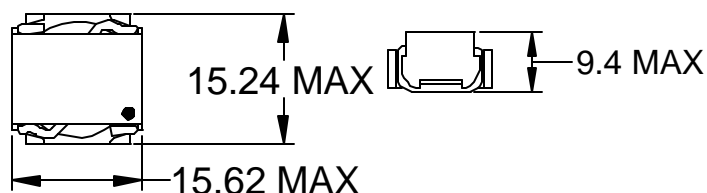
- SLI 4202-G, SLI 4204-G, SLI 4210-G, SLI 4214-G



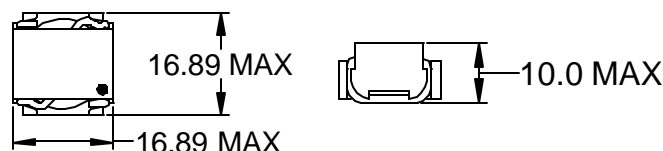
- SLI 4207-G, SLI 4212-G, SLI 4216-G, SLI 4219-G



- SLI 4221-G, SLI 4225-G



- SLI 4222-G, SLI 4226-G

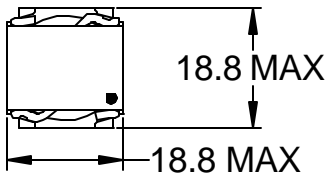




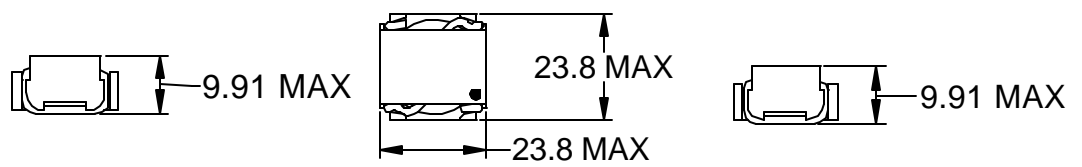
Self Leaded Inductor

- 4200 Series

• SLI 4223-G, SLI 4227-G



• SLI 4224-G, SLI 4228-G



| Partnumber | Land pattern dimensions | W (inch[cm]) | H (inch[cm]) | T (inch[cm]) |
|---|-------------------------|-----------------|-----------------|-----------------|
| SLI 4200-G, SLI 4201-G, SLI 4209-G | | 0.270[6.86] | 0.300[7.62] | 0.060[1.52] |
| SLI 4202-G, SLI 4204-G, SLI 4210-G, SLI-4214-G | | 0.360[9.14] | 0.400[10.16] | 0.060[1.52] |
| SLI 4203-G, SLI 4205-G, SLI 4206-G, SLI 4211-G, SLI 4215-G, SLI 218-G | | 0.460[11.68] | 0.520[13.21] | 0.060[1.52] |
| SLI 4207-G, SLI 4212-G, SLI 4216-G, SLI 4219-G | | 0.500[12.7] | 0.550[13.97] | 0.060[1.52] |
| SLI 4208-G, SLI 4213-G, SLI 4217-G, SLI 4220-G | | 0.590[14.99] | 0.620[15.75] | 0.060[1.52] |
| SLI 4221-G, SLI 4225-G | | 0.500[12.70] | 0.440[11.18] | 0.080[2.03] |
| SLI 4222-G, SLI 4226-G | | 0.570[14.48] | 0.490[12.45] | 0.080[2.03] |
| SLI 4223-G, SLI 4227-G | | 0.640[16.26] | 0.560[14.22] | 0.080[2.03] |
| SLI 4224-G, SLI 4228-G | | 0.830[21.08] | 0.700[17.78] | 0.080[2.03] |

Electrical Properties

| Part Number | Reference Values* | | | Control Value | | Calculated Data | | |
|-------------|-------------------------------------|-------------------------|---------------|----------------------------|-------------|----------------------------|--------------------------------------|-----------------|
| | I _{DC} [*] (A) | L _{DC} (μH) | ET (VμSec) | L _o (μH±20%) | DCR (mΩ) | ET [*] (VμSec) | H _i -1 Amp DC (Orsted) | DCR (mΩ Nom) |
| SLI 4200-G | 1.40 | 6.20 | 1.33 | 7.0 | 70.0 | 0.94 | 21.9 | 60.3 |
| SLI 4201-G | 1.00 | 17.6 | 2.40 | 22.7 | 125 | 1.68 | 39.3 | 109 |
| SLI 4209-G | 3.40 | 1.01 | 0.532 | 1.10 | 11.0 | 0.37 | 8.74 | 12.5 |
| SLI 4203-G | 1.30 | 58.1 | 7.83 | 73.0 | 290 | 7.09 | 28.8 | 233 |
| SLI 4205-G | 0.90 | 192 | 15.7 | 292 | 560 | 14.2 | 57.7 | 472 |
| SLI 4206-G | 0.72 | 383 | 23.5 | 672 | 862 | 21.3 | 86.5 | 750 |
| SLI 4211-G | 2.7 | 16.2 | 4.29 | 21.9 | 63.0 | 3.88 | 15.8 | 54.7 |
| SLI 4215-G | 5.4 | 5.1 | 2.51 | 7.5 | 17.7 | 2.27 | 9.25 | 14.3 |
| SLI 4218-G | 8.0 | 2.5 | 1.77 | 3.80 | 8.3 | 1.61 | 6.53 | 7.20 |
| SLI 4207-G | 0.74 | 645 | 36.5 | 1134 | 1250 | 37.2 | 84.4 | 1040 |
| SLI 4212-G | 2.7 | 29.1 | 6.90 | 40.5 | 85.0 | 7.02 | 15.9 | 75.8 |
| SLI 4216-G | 5.5 | 9.0 | 4.06 | 14.0 | 22.3 | 4.13 | 9.38 | 19.3 |
| SLI 4219-G | 7.8 | 4.9 | 3.04 | 7.9 | 12.4 | 3.10 | 7.03 | 10.5 |
| SLI 4208-G | 0.71 | 1070 | 54.4 | 1950 | 1700 | 56.9 | 95.7 | 1480 |
| SLI 4213-G | 2.6 | 50.0 | 10.5 | 72.9 | 133 | 11.0 | 18.5 | 115 |
| SLI 4217-G | 5.1 | 16.1 | 6.27 | 25.9 | 32.0 | 6.55 | 11.0 | 30.3 |
| SLI 4220-G | 7.2 | 9.3 | 4.92 | 16.0 | 18.7 | 5.15 | 8.67 | 16.3 |
| SLI 4221-G | 11.5 | 1.32 | 1.33 | 2.10 | 4.0 | 1.20 | 4.90 | 3.39 |
| SLI 4225-G | 14.3 | 0.81 | 1.035 | 1.25 | 2.5 | 0.94 | 381 | 2.16 |
| SLI 4222-G | 11.4 | 2.5 | 2.23 | 4.20 | 5.4 | 2.27 | 5.16 | 4.64 |
| SLI 4226-G | 13.9 | 1.68 | 1.83 | 2.80 | 3.6 | 1.86 | 4.22 | 3.16 |
| SLI 4223-G | 10.4 | 4.7 | 3.58 | 8.4 | 8.3 | 3.75 | 6.30 | 7.18 |
| SLI 4227-G | 12.4 | 3.5 | 3.13 | 6.5 | 6.6 | 3.28 | 5.52 | 5.75 |
| SLI 4224-G | 10.9 | 9.4 | 6.84 | 17.6 | 12.3 | 7.93 | 6.24 | 10.7 |
| SLI 4228-G | 15.4 | 5.2 | 5.21 | 10.5 | 6.2 | 6.04 | 4.75 | 5.30 |

Note:

- Reference values are for an inductor with a 55°C temperature rise. The core loss is 10% of the copper loss at the ET listed and 500KHz
- I_{DC}: Core does not saturate abruptly. The ET and DC current are limited by the desired inductance and temperature rise.
- ET calculated at 100 Gauss

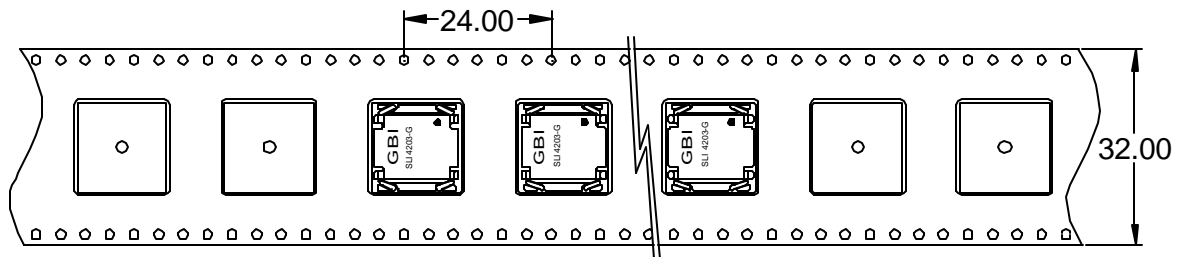


Self Leaded Inductor

- 4200 Series

Packaging

| Part number | Parts per reel |
|--|--------------------------------|
| SLI 4200-G, SLI 4201-G, SLI 4209-G, | 24mm x 16mm 500pcs per reel |
| SLI 4202-G, SLI 4204-G, SLI 4210-G, SLI-4214-G | 24mm x 16mm 350 pcs per reel |
| SLI 4203-G, SLI 4205-G, SLI 4206-G, SLI 4207-G, SLI 4211-G, SLI 4212-G, SLI 4215-G, SLI 4216-G, SLI 4218-G, SLI 4219-G, SLI 4221-G, SLI 4225-G | 32mm x 24mm 250pcs per reel |
| SLI 4208-G, SLI 4213-G, SLI 4217-G, SLI 4220-G, SLI 4222-G, SLI 4223-G, SLI 4226-G, SLI 4227-G | 32 mm x 24 mm 200 pcs per reel |
| SLI 4224-G, SLI 4228-G | 44mm x 32mm 150pcs per reel |



Storage & Handling Information

- To see details visit our web page at http://www.gbint.com/files/data/Storage_Handling/Storage_Handling.pdf