

**SMPI210S**

**SMPI210SLF\***

**Wirewound, Shielded, Molded**


| PART NUMBER   | L $\mu$ H<br>@100 kHz | DCR<br>OHMS<br>MAX | SATURATION CURRENT<br>mA DC | CURRENT RATING<br>mA DC |
|---------------|-----------------------|--------------------|-----------------------------|-------------------------|
| FERRITE CORE  |                       |                    |                             |                         |
| SMP1210S-101K | 1.0                   | 0.11               | 2060                        | 1384                    |
| SMP1210S-121K | 1.2                   | 0.13               | 1860                        | 1273                    |
| SMP1210S-151K | 1.5                   | 0.14               | 1690                        | 1227                    |
| SMP1210S-181K | 1.8                   | 0.20               | 1550                        | 1027                    |
| SMP1210S-221K | 2.2                   | 0.22               | 1430                        | 979                     |
| SMP1210S-271K | 2.7                   | 0.24               | 1240                        | 937                     |
| SMP1210S-331K | 3.3                   | 0.27               | 1160                        | 884                     |
| SMP1210S-391K | 3.9                   | 0.30               | 1030                        | 838                     |
| SMP1210S-471K | 4.7                   | 0.32               | 970                         | 812                     |
| SMP1210S-561K | 5.6                   | 0.34               | 880                         | 787                     |
| SMP1210S-681K | 6.8                   | 0.39               | 800                         | 735                     |
| SMP1210S-821K | 8.2                   | 0.44               | 740                         | 692                     |
| SMP1210S-102K | 10                    | 0.60               | 600                         | 590                     |
| SMP1210S-122K | 12                    | 0.75               | 580                         | 530                     |
| SMP1210S-152K | 15                    | 0.85               | 520                         | 498                     |
| SMP1210S-182K | 18                    | 1.00               | 460                         | 459                     |
| SMP1210S-222K | 22                    | 1.40               | 420                         | 388                     |
| SMP1210S-272K | 27                    | 1.50               | 380                         | 375                     |
| SMP1210S-332K | 33                    | 2.20               | 340                         | 310                     |
| SMP1210S-392K | 39                    | 2.40               | 320                         | 292                     |
| SMP1210S-472K | 47                    | 2.70               | 290                         | 279                     |
| SMP1210S-562K | 56                    | 3.20               | 260                         | 257                     |
| SMP1210S-682K | 68                    | 3.70               | 240                         | 239                     |
| SMP1210S-822K | 82                    | 4.50               | 220                         | 216                     |
| SMP1210S-103K | 100                   | 5.00               | 200                         | 205                     |

Suffix "K" for 10% tolerance

Custom designs are available to meet your specific requirements; please contact factory.

*continued next page*

**\*Add "LF" suffix for RoHS requirement. Example: SMP1210S-101KLF**

Gowanda designates a component RoHS-compliant by adding "LF" (lead free) to the part number.

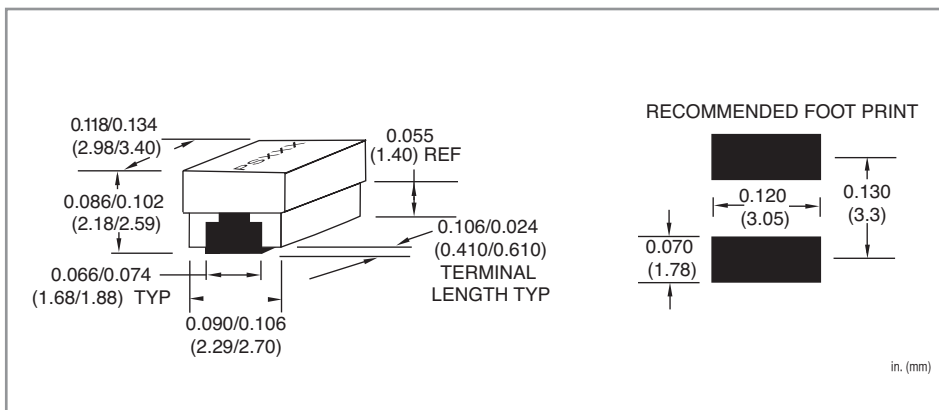
These LF components meet the  $\leq .1\%$  lead requirement and they are compatible with 260°C soldering processes.

**NOTES:**

- Operating Temperature Range:  
-55°C to +125°C
- Current Rating is based on a 40°C temperature rise at an ambient temperature of 85°C
- Saturation Current is the approximate value that will reduce the initial inductance by 5%
- Can be used for all types of power applications including filters for DC/DC converters and switching regulated power supplies
- Coupling less than 4% with 1mm of spacing between components
- Epoxy Encapsulated

**TAPE AND REEL SPECS:**

|                      |       |
|----------------------|-------|
| Pcs./Reel maximum:   | 2000  |
| Pitch between parts: | 8 mm  |
| Tape width:          | 8 mm  |
| Reel diameter:       | 7 in. |



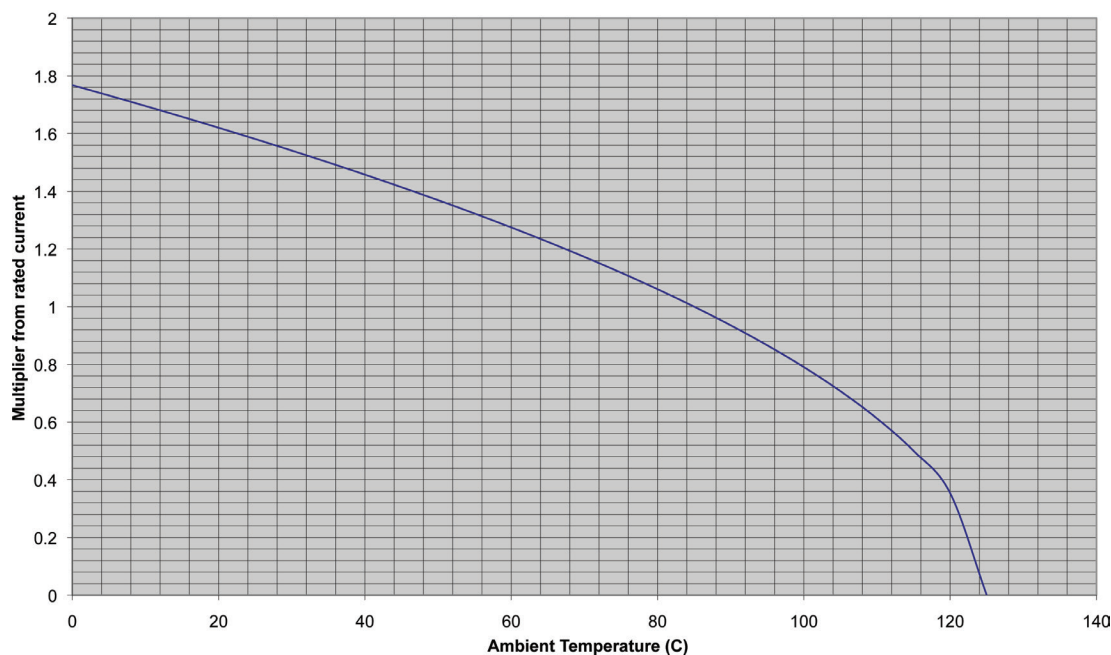
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**SMP1210S**

**SMP1210SLF\***

**Wirewound, Shielded, Molded**


**SMP1210s series  
Derating Curve**

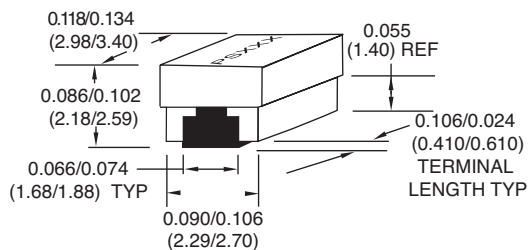


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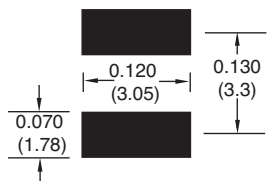
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**RECOMMENDED FOOT PRINT**



in. (mm)