

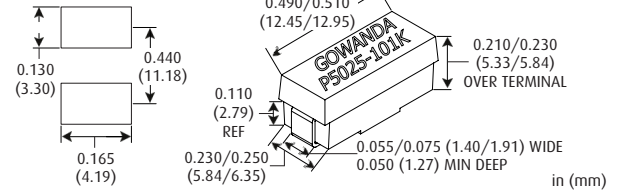
SMP5025 SERIES



Molded Unshielded High Current Power Inductor



RECOMMENDED FOOT PRINT

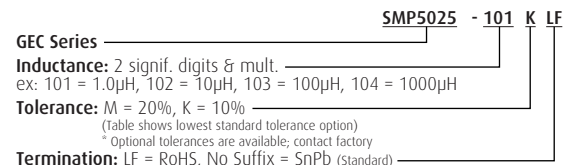


| PART NUMBER | L μ H $\pm 10\%$ @ 1 kHz | DCR Ω MAX | I SAT A DC | CURRENT RATING A DC |
|---------------------|------------------------------------|------------------------|---------------|------------------------|
| FERRITE CORE | | | | |
| SMP5025-101K | 1.0 | 0.015 | 7.4 | 5.10 |
| SMP5025-121K | 1.2 | 0.017 | 6.4 | 4.80 |
| SMP5025-151K | 1.5 | 0.020 | 6.0 | 4.42 |
| SMP5025-181K | 1.8 | 0.023 | 5.6 | 4.12 |
| SMP5025-221K | 2.2 | 0.029 | 5.2 | 3.67 |
| SMP5025-271K | 2.7 | 0.030 | 4.6 | 3.61 |
| SMP5025-331K | 3.3 | 0.035 | 4.0 | 3.34 |
| SMP5025-391K | 3.9 | 0.038 | 3.8 | 3.20 |
| SMP5025-471K | 4.7 | 0.043 | 3.6 | 3.00 |
| SMP5025-561K | 5.6 | 0.046 | 3.2 | 2.91 |
| SMP5025-681K | 6.8 | 0.053 | 2.8 | 2.71 |
| SMP5025-821K | 8.2 | 0.058 | 2.7 | 2.59 |
| SMP5025-102K | 10 | 0.071 | 2.4 | 2.34 |
| SMP5025-122K | 12 | 0.079 | 2.2 | 2.22 |
| SMP5025-152K | 15 | 0.089 | 2.0 | 2.09 |
| SMP5025-182K | 18 | 0.109 | 1.8 | 1.89 |
| SMP5025-222K | 22 | 0.150 | 1.6 | 1.61 |
| SMP5025-272K | 27 | 0.170 | 1.5 | 1.51 |
| SMP5025-332K | 33 | 0.222 | 1.4 | 1.33 |
| SMP5025-392K | 39 | 0.250 | 1.2 | 1.25 |
| SMP5025-472K | 47 | 0.330 | 1.1 | 1.09 |
| SMP5025-562K | 56 | 0.370 | 1.0 | 1.03 |
| SMP5025-682K | 68 | 0.418 | 0.960 | 0.966 |
| SMP5025-822K | 82 | 0.468 | 0.900 | 0.913 |
| SMP5025-103K | 100 | 0.620 | 0.800 | 0.793 |
| SMP5025-123K | 120 | 0.684 | 0.700 | 0.755 |
| SMP5025-153K | 150 | 0.900 | 0.620 | 0.658 |
| SMP5025-183K | 180 | 1.04 | 0.560 | 0.612 |
| SMP5025-223K | 220 | 1.16 | 0.520 | 0.580 |
| SMP5025-273K | 270 | 1.63 | 0.450 | 0.489 |
| SMP5025-333K | 330 | 1.82 | 0.410 | 0.463 |
| SMP5025-393K | 390 | 2.05 | 0.390 | 0.436 |
| SMP5025-473K | 470 | 2.70 | 0.360 | 0.380 |
| SMP5025-563K | 560 | 2.80 | 0.330 | 0.373 |
| SMP5025-683K | 680 | 4.10 | 0.290 | 0.308 |
| SMP5025-823K | 820 | 4.70 | 0.260 | 0.288 |
| SMP5025-104K | 1000 | 5.40 | 0.245 | 0.269 |
| SMP5025-124K | 1200 | 8.30 | 0.220 | 0.218 |
| SMP5025-154K | 1500 | 9.40 | 0.200 | 0.204 |
| SMP5025-184K | 1800 | 11 | 0.190 | 0.188 |
| SMP5025-224K | 2200 | 12 | 0.160 | 0.180 |
| SMP5025-274K | 2700 | 16 | 0.150 | 0.156 |
| SMP5025-334K | 3300 | 17 | 0.140 | 0.151 |
| SMP5025-394K | 3900 | 21 | 0.130 | 0.136 |
| SMP5025-474K | 4700 | 25 | 0.120 | 0.125 |
| SMP5025-564K | 5600 | 30 | 0.110 | 0.114 |
| SMP5025-684K | 6800 | 49 | 0.094 | 0.089 |
| SMP5025-824K | 8200 | 55 | 0.088 | 0.084 |
| SMP5025-105K | 10000 | 62 | 0.080 | 0.079 |

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%
- **Weight Max:** 1.15 grams
- **Marking:** GOWANDA; P5025-XXX (dash number) (see diagram above)
- Epoxy-encapsulated for environmental protection and superior strength to withstand all types of reflow soldering
- Materials are fungus-inert to meet method 508 of MIL-STD-810H
- Custom designs are available to meet your specific requirements; please contact factory
- **Applications:** Can be used for all types of power applications including filters for DC/DC converters and switching regulated power supplies.

PART NUMBER DERIVATION



TAPE AND REEL SPECS

| | |
|----------------------|--------|
| Pieces/reel maximum: | 800 |
| Pitch between parts: | 12 mm |
| Tape width: | 24 mm |
| Reel diameter: | 13 in. |