

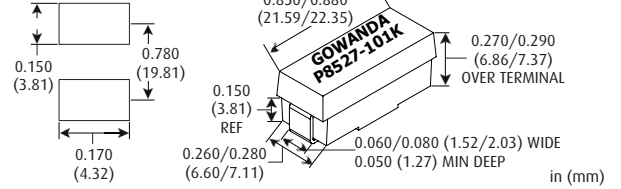
SMP8527 SERIES



Molded Unshielded High Current Power Inductor



RECOMMENDED FOOT PRINT

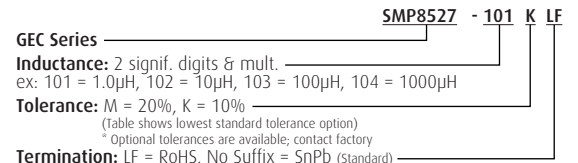


PART NUMBER	L μ H $\pm 10\%$ @ 1 kHz	DCR Ω MAX	I SAT A DC	CURRENT RATING A DC
FERRITE CORE				
SMP8527-101K	1.0	0.011	10	6.68
SMP8527-121K	1.2	0.012	8.4	6.40
SMP8527-151K	1.5	0.013	8.2	6.15
SMP8527-181K	1.8	0.014	6.8	5.92
SMP8527-221K	2.2	0.016	6.4	5.54
SMP8527-271K	2.7	0.017	5.8	5.37
SMP8527-331K	3.3	0.018	5.4	5.22
SMP8527-391K	3.9	0.020	4.8	4.95
SMP8527-471K	4.7	0.024	4.2	4.52
SMP8527-561K	5.6	0.026	3.8	4.35
SMP8527-681K	6.8	0.034	3.4	3.80
SMP8527-821K	8.2	0.037	3.2	3.64
SMP8527-102K	10	0.043	3.0	3.38
SMP8527-122K	12	0.048	2.8	3.20
SMP8527-152K	15	0.049	2.6	3.17
SMP8527-182K	18	0.054	2.2	3.02
SMP8527-222K	22	0.059	2.0	2.88
SMP8527-272K	27	0.070	1.8	2.65
SMP8527-332K	33	0.077	1.8	2.53
SMP8527-392K	39	0.084	1.6	2.42
SMP8527-472K	47	0.101	1.4	2.20
SMP8527-562K	56	0.113	1.4	2.08
SMP8527-682K	68	0.145	1.2	1.84
SMP8527-822K	82	0.173	1.2	1.68
SMP8527-103K	100	0.208	1.0	1.54
SMP8527-123K	120	0.283	0.96	1.32
SMP8527-153K	150	0.414	0.86	1.10
SMP8527-183K	180	0.468	0.80	1.02
SMP8527-223K	220	0.505	0.68	0.990
SMP8527-273K	270	0.620	0.62	0.890
SMP8527-333K	330	0.720	0.60	0.826
SMP8527-393K	390	0.770	0.54	0.799
SMP8527-473K	470	1.00	0.50	0.700
SMP8527-563K	560	1.27	0.50	0.620
SMP8527-683K	680	1.50	0.45	0.570
SMP8527-823K	820	1.96	0.42	0.500
SMP8527-104K	1000	2.28	0.36	0.460
SMP8527-124K	1200	2.52	0.32	0.440
SMP8527-154K	1500	3.49	0.28	0.380
SMP8527-184K	1800	3.89	0.26	0.360
SMP8527-224K	2200	4.40	0.24	0.330
SMP8527-274K	2700	5.78	0.20	0.290
SMP8527-334K	3300	7.51	0.18	0.260
SMP8527-394K	3900	8.44	0.17	0.240
SMP8527-474K	4700	9.56	0.15	0.230
SMP8527-564K	5600	13.2	0.14	0.190
SMP8527-684K	6800	15.0	0.13	0.180
SMP8527-824K	8200	17.0	0.12	0.170
SMP8527-105K	10000	22.8	0.10	0.150

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:** 3.1 grams
- **Marking:** GOWANDA; P8527-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:	480
Pitch between parts:	16 mm
Tape width:	44 mm
Reel diameter:	13 in.