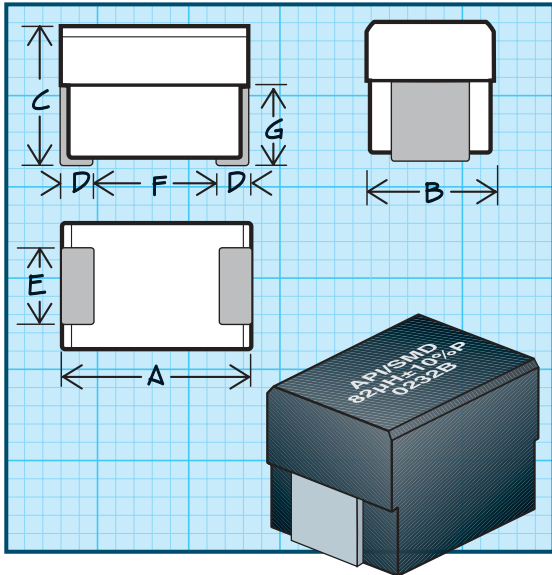


Series P1812

Surface Mount Power Inductors



Physical Parameters

| | Inches | Millimeters |
|---|-------------------|------------------|
| A | 0.166 to 0.190 | 4.22 to 4.83 |
| B | 0.118 to 0.134 | 3.00 to 3.40 |
| C | 0.118 to 0.134 | 3.00 to 3.40 |
| D | 0.015 Min. | 0.38 Min. |
| E | 0.054 to 0.078 | 1.37 to 1.98 |
| F | 0.118 (Ref. only) | 3.00 (Ref. only) |
| G | 0.066 (Ref. only) | 1.68 (Ref. only) |

Dimensions "A" and "C" are over terminals

Operating Temperature Range -55°C to +125°C

Current Rating at 90°C Ambient 35°C Rise

Maximum Power Dissipation at 90°C 0.278 W

Inductance Measured at 1V with no DC current

Incremental Current The current at which the inductance will be decreased by a maximum of 5% from its initial zero DC value.

Packaging Tape & reel (16mm): 7" reel, 500 pieces max.; 13" reel, 2200 pieces max.

Made in the U.S.A. Patent Protected

| PART NUMBER | INDUCTANCE (μH) ±10% @ 1 kHz | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAX. (mA DC) | INCREMENTAL CURRENT (mA DC) |
|--|---------------------------------|---------------------------------|--------------------------------|--------------------------------|
| SERIES P1812 | | | | |
| P1812-102K | 1.0 | 0.113 | 1050 | 2400 |
| P1812-122K | 1.2 | 0.199 | 1000 | 2158 |
| P1812-152K | 1.5 | 0.222 | 950 | 1980 |
| P1812-182K | 1.8 | 0.240 | 900 | 1828 |
| P1812-222K | 2.2 | 0.268 | 850 | 1697 |
| P1812-272K | 2.7 | 0.288 | 800 | 1513 |
| P1812-332K | 3.3 | 0.323 | 750 | 1397 |
| P1812-392K | 3.9 | 0.347 | 700 | 1250 |
| P1812-472K | 4.7 | 0.401 | 650 | 1131 |
| P1812-562K | 5.6 | 0.437 | 650 | 1060 |
| P1812-682K | 6.8 | 0.472 | 600 | 990 |
| P1812-822K | 8.2 | 0.548 | 600 | 871 |
| P1812-103K | 10 | 0.608 | 550 | 772 |
| P1812-123K | 12 | 0.670 | 550 | 752 |
| P1812-153K | 15 | 0.780 | 450 | 693 |
| P1812-183K | 18 | 0.875 | 400 | 614 |
| P1812-223K | 22 | 1.200 | 370 | 515 |
| P1812-273K | 27 | 1.404 | 330 | 465 |
| P1812-333K | 33 | 1.578 | 300 | 425 |
| P1812-393K | 39 | 1.848 | 280 | 376 |
| P1812-473K | 47 | 2.064 | 260 | 366 |
| P1812-563K | 56 | 2.268 | 240 | 336 |
| P1812-683K | 68 | 3.408 | 220 | 297 |
| P1812-823K | 82 | 3.648 | 200 | 267 |
| P1812-104K | 100 | 4.320 | 180 | 238 |
| P1812-124K | 120 | 6.000 | 160 | 208 |
| P1812-154K | 150 | 6.432 | 140 | 183 |
| P1812-184K | 180 | 8.400 | 120 | 158 |
| P1812-224K | 220 | 9.680 | 120 | 143 |
| P1812-274K | 270 | 12.720 | 100 | 129 |
| P1812-334K | 330 | 15.240 | 90 | 118 |
| OPTIONAL TOLERANCES: J=5% H=3% G=2% | | | | |

POWER INDUCTORS