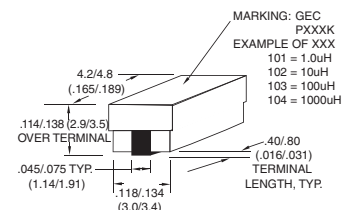


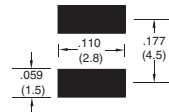
## SMPI812LF RoHS Power Inductors



| PART NUMBER    | L $\mu$ H $\pm 10\%$<br>@1 kHz | DCR OHMS<br>MAX | SATURATION CURRENT*<br>DC mA | CURRENT RATING**<br>DC mA |
|----------------|--------------------------------|-----------------|------------------------------|---------------------------|
| SMP1812-101KLF | 1.0                            | .080            | 2500                         | 2018                      |
| SMP1812-121KLF | 1.2                            | .085            | 2200                         | 1903                      |
| SMP1812-151KLF | 1.5                            | .087            | 2000                         | 1619                      |
| SMP1812-181KLF | 1.8                            | .094            | 1830                         | 1558                      |
| SMP1812-221KLF | 2.2                            | .13             | 1697                         | 1325                      |
| SMP1812-271KLF | 2.7                            | .14             | 1513                         | 1277                      |
| SMP1812-331KLF | 3.3                            | .17             | 1397                         | 1158                      |
| SMP1812-391KLF | 3.9                            | .22             | 1250                         | 1018                      |
| SMP1812-471KLF | 4.7                            | .24             | 1131                         | 975                       |
| SMP1812-561KLF | 5.6                            | .34             | 1060                         | 819                       |
| SMP1812-681KLF | 6.8                            | .37             | 990                          | 785                       |
| SMP1812-821KLF | 8.2                            | .41             | 871                          | 746                       |
| SMP1812-102KLF | 10                             | .46             | 772                          | 704                       |
| SMP1812-122KLF | 12                             | .51             | 752                          | 669                       |
| SMP1812-152KLF | 15                             | .72             | 693                          | 563                       |
| SMP1812-182KLF | 18                             | .82             | 614                          | 527                       |
| SMP1812-222KLF | 22                             | 1.11            | 515                          | 453                       |
| SMP1812-272KLF | 27                             | 1.25            | 465                          | 427                       |
| SMP1812-332KLF | 33                             | 1.35            | 425                          | 411                       |
| SMP1812-392KLF | 39                             | 1.50            | 376                          | 390                       |
| SMP1812-472KLF | 47                             | 1.65            | 366                          | 372                       |
| SMP1812-562KLF | 56                             | 1.88            | 336                          | 348                       |
| SMP1812-682KLF | 68                             | 2.95            | 297                          | 288                       |
| SMP1812-822KLF | 82                             | 3.44            | 267                          | 258                       |
| SMP1812-103KLF | 100                            | 4.00            | 238                          | 239                       |
| SMP1812-123KLF | 120                            | 5.53            | 214                          | 203                       |
| SMP1812-153KLF | 150                            | 6.00            | 191                          | 195                       |
| SMP1812-183KLF | 180                            | 7.90            | 175                          | 170                       |
| SMP1812-223KLF | 220                            | 8.80            | 158                          | 161                       |
| SMP1812-273KLF | 270                            | 9.93            | 143                          | 152                       |
| SMP1812-333KLF | 330                            | 14.8            | 129                          | 124                       |



### RECOMMENDED FOOT PRINT



in. (mm)

### NOTES:

- Operating temperature -55°C to +125°C
- Core material is high resistance nickel zinc ferrite
- \*Saturation current is the approximate value that will reduce the initial inductance by 5%
- \*\*Rated current is based on a 40°C temperature rise at an ambient temperature of 85°C.

### TAPE AND REEL SPECS:

|                       |       |
|-----------------------|-------|
| Pcs./Reel maximum:    | 2200  |
| Pitch between parts:  | 8 mm  |
| Tape width:           | 12 mm |
| Reel diameter inches: | 13    |