

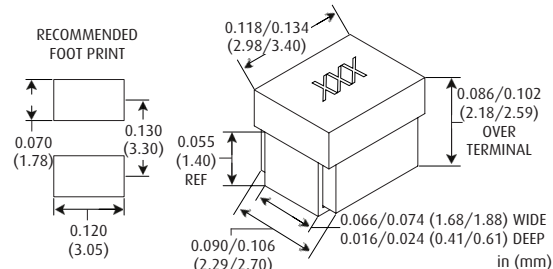
## SML32S SERIES



### Molded Shielded Inductor



| PART NUMBER        | L<br>μH | L TEST<br>FREQ<br>MHz | SRF<br>MHz<br>MIN | DCR<br>Ω<br>MAX | CURRENT<br>RATING<br>mA DC |
|--------------------|---------|-----------------------|-------------------|-----------------|----------------------------|
| POWDERED IRON CORE |         |                       |                   |                 |                            |
| SML32S-100K        | 0.10    | 25                    | 375               | 0.15            | 1175                       |
| SML32S-120K        | 0.12    | 25                    | 350               | 0.17            | 1104                       |
| SML32S-150K        | 0.15    | 25                    | 330               | 0.20            | 1017                       |
| SML32S-180K        | 0.18    | 25                    | 310               | 0.22            | 971                        |
| SML32S-220K        | 0.22    | 25                    | 300               | 0.25            | 910                        |
| SML32S-270K        | 0.27    | 25                    | 290               | 0.30            | 860                        |
| SML32S-330K        | 0.33    | 25                    | 255               | 0.35            | 831                        |
| SML32S-390K        | 0.39    | 25                    | 230               | 0.40            | 720                        |
| SML32S-470K        | 0.47    | 25                    | 220               | 0.45            | 679                        |
| SML32S-560K        | 0.56    | 25                    | 200               | 0.50            | 644                        |
| SML32S-680K        | 0.68    | 25                    | 180               | 0.55            | 614                        |
| SML32S-820K        | 0.82    | 25                    | 170               | 0.60            | 588                        |
| FERRITE CORE       |         |                       |                   |                 |                            |
| SML32S-101K        | 1.0     | 7.9                   | 140               | 0.40            | 679                        |
| SML32S-121K        | 1.2     | 7.9                   | 120               | 0.49            | 650                        |
| SML32S-151K        | 1.5     | 7.9                   | 110               | 0.57            | 603                        |
| SML32S-171K        | 1.7     | 7.9                   | 95                | 0.65            | 650                        |
| SML32S-181K        | 1.8     | 7.9                   | 95                | 0.65            | 564                        |
| SML32S-221K        | 2.2     | 7.9                   | 80                | 0.73            | 533                        |
| SML32S-271K        | 2.7     | 7.9                   | 70                | 0.75            | 526                        |
| SML32S-331K        | 3.3     | 7.9                   | 45                | 0.80            | 509                        |
| SML32S-391K        | 3.9     | 7.9                   | 42                | 0.83            | 500                        |
| SML32S-471K        | 4.7     | 7.9                   | 40                | 1.0             | 455                        |
| SML32S-561K        | 5.6     | 7.9                   | 38                | 1.3             | 399                        |
| SML32S-681K        | 6.8     | 7.9                   | 35                | 1.5             | 372                        |
| SML32S-821K        | 8.2     | 7.9                   | 32                | 1.7             | 349                        |
| SML32S-102K        | 10      | 2.5                   | 28                | 1.9             | 330                        |
| SML32S-122K        | 12      | 2.5                   | 25                | 2.1             | 314                        |
| SML32S-152K        | 15      | 2.5                   | 23                | 2.5             | 288                        |
| SML32S-182K        | 18      | 2.5                   | 21                | 2.8             | 272                        |
| SML32S-222K        | 22      | 2.5                   | 19                | 3.0             | 262                        |
| SML32S-272K        | 27      | 2.5                   | 16                | 4.0             | 228                        |
| SML32S-332K        | 33      | 2.5                   | 14                | 4.5             | 215                        |
| SML32S-392K        | 39      | 2.5                   | 12                | 5.0             | 204                        |
| SML32S-472K        | 47      | 2.5                   | 10                | 5.5             | 194                        |
| SML32S-562K        | 56      | 2.5                   | 8                 | 6.3             | 181                        |
| SML32S-682K        | 68      | 2.5                   | 8                 | 7.0             | 172                        |
| SML32S-822K        | 82      | 2.5                   | 8                 | 8.5             | 156                        |
| SML32S-103K        | 100     | 2.5                   | 8                 | 10.0            | 144                        |
| SML32S-123K        | 120     | 0.79                  | 5                 | 11.0            | 137                        |
| SML32S-153K        | 150     | 0.79                  | 4                 | 12.0            | 131                        |
| SML32S-183K        | 180     | 0.79                  | 4                 | 13.0            | 126                        |
| SML32S-223K        | 220     | 0.79                  | 4                 | 15.0            | 118                        |
| SML32S-273K        | 270     | 0.79                  | 3.4               | 18.0            | 107                        |
| SML32S-333K        | 330     | 0.79                  | 3.2               | 20.0            | 102                        |
| SML32S-393K        | 390     | 0.79                  | 2.7               | 23.0            | 95                         |
| SML32S-473K        | 470     | 0.79                  | 2.1               | 25.0            | 91                         |



## NOTES

- Operating Temperature Range: -55°C to +125°C
- Current Rating is based on a 35°C temperature rise at an ambient temperature of 90°C
- Weight Max: 0.05 grams
- Marking: 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

## PART NUMBER DERIVATION

**SML32S - 010 G LF**

GEC Series

Inductance: 2 signif. digits & mult.  
ex: 010 = 0.010μH, 100 = 0.10μH, 101 = 1.0μH, 102 = 10μH

Tolerance: M = 20%, K = 10%, J = 5%, H = 3%, G = 2%, F = 1%  
(Table shows lowest standard tolerance option)  
Optional tolerances are available; contact factory

Termination: LF = RoHS, No Suffix = SnPb (Standard)

## TAPE AND REEL SPECS

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