



SEP1809E SERIES~ High Current SMD Power Inductors



PART NUMBERING SYSTEM

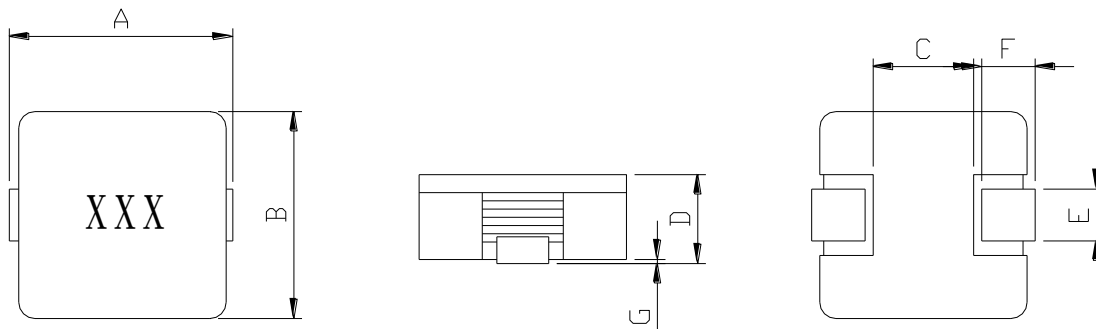
| | | | | | |
|------------|--------------|---|-------------|---|-----------|
| SEP | 1809E | — | 4R7M | — | LF |
| TYPE | DIMENSIONS | | INDUCTANCE | | LEAD FREE |

FEATURES :

- * Magnetically shielded low DC resistance .
- * High Frequency Range .
- * Handles high transient current spikes without saturation.
- * Ultra low buzz noise, due to composite construction
- * Application for DC/DC converter and PDA/notebook/desktop/server .

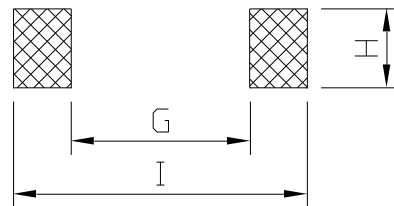
SHAPES AND DIMENSIONS :

UNIT : mm



A=19.3 Max. B=18.2 ± 0.5 D=9.2 Max. E=4.2 ± 0.5 F=4.5 ± 1.0

RECOMMENDED PATTERNS



G=7.30 H= 6.00 I= 19.3



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SPECIFICATION TABLE

| PART NUMBER | INDUCTANCE (μ H) | Isat (A) (Typ.) | DCR (m Ω) (Max.) | Test Freq. (KHz) |
|-------------------|--------------------------|----------------------|-----------------------------|---------------------|
| SEP1809E-1R9M-LF | 1.9 \pm 20% | 40.0 | 1.4 | 100KHz/1V |
| SEP1809E -4R7M-LF | 4.7 \pm 20% | 30.0 | 2.85 | 100KHz/1V |
| SEP1809E -5R6M-LF | 5.6 \pm 20% | 27.0 | 3.55 | 100KHz/1V |
| SEP1809E -6R0M-LF | 6.0 \pm 20% | 25.0 | 3.55 | 100KHz/1V |
| SEP1809E -6R8M-LF | 6.8 \pm 20% | 25.0 | 3.55 | 100KHz/1V |
| SEP1809E -6R0M-LF | 6.0 \pm 20% | 27.0 | 4.10 | 100KHz/1V |
| SEP1809E -150M-LF | 15.0 \pm 20% | 9.0 | 18.0 | 100KHz/1V |
| SEP1809E -220M-LF | 22.0 \pm 20% | 7.0 | 26.0 | 100KHz/1V |
| SEP1809E -330M-LF | 33.0 \pm 20% | 14.0 | 21.0 | 100KHz/1V |

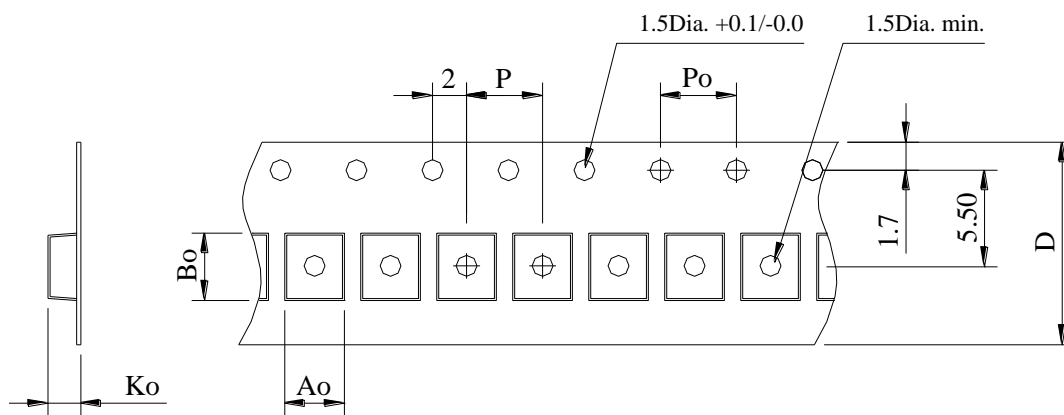
- Operating temperature range - 40 °C to + 125 °C
- I sat : DC current (A) that will cause L0 to drop approximately 30 %
- I rms : DC current (A) that will cause an approximate Δ T of 40 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions.



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PACKAGING SPECIFICATION



| STAYLE | Q'TY (PCS) | DIMENSIONS (m/m) | | | | | |
|--------|------------|------------------|-------|-------|-----|-------|-------------|
| | | A_o | B_o | K_o | P | P_o | $D \pm 0.3$ |
| 13" | 250 | 19.0 | 19.5 | 7.5 | 20 | 4.0 | 24 |