



SEP1005E SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

| | | | | | |
|------------|--------------|---|-------------|---|-----------|
| SEP | 1005E | — | 3R3M | — | LF |
| TYPE | DIMENSIONS | | INDUCTANCE | | LEAD FREE |

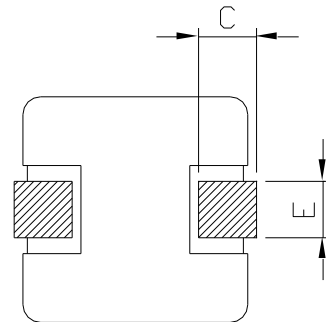
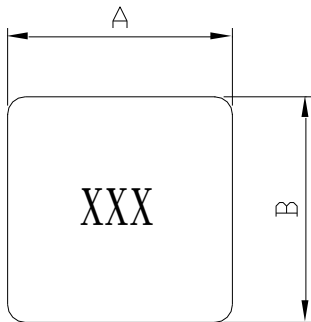
SHAPES AND DIMENSIONS :

UNIT : mm



FEATURES :

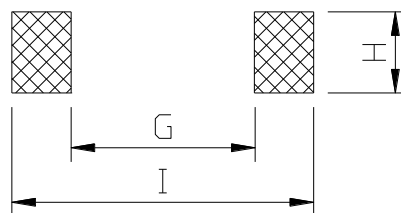
- * Low profile.
- * Magnetically shielded low DC resistance .
- * Suitable for large current application.
- * Laptop & Notebook computers.
- * Battery powered equipment.
- * DC/DC converters.
- * Digital 、 Cameras 、 Scanners, CD-ROM & DVD.



A=11.5±1.0 B=10.5±0.5 C=2.3 Ref. D=5.0 Max. E=3.0 Ref.

UNIT : mm

RECOMMENDED PATTERNS



G=6.0 H=4.0 I= 13.0

UNIT : mm

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SPECIFICATION TABLE

| PART NUMBER | INDUCTANCE (μ H) | I _{sat} (A) (Typ.) | I _{rms} (A) (Δ t) 40°C (Typ.) | DCR (m Ω) (Max.) | DCR (m Ω) (Typ.) | Test Freq. (KHz) |
|------------------|--------------------------|----------------------------------|---|-----------------------------|-----------------------------|---------------------|
| SEP1005E-R16M-LF | 0.16 \pm 20% | 58.0 | 25.0 | 0.561 | 0.51 | 100KHz/1V |
| SEP1005E-R40M-LF | 0.40 \pm 20% | 37.0 | 24.0 | 0.737 | 0.67 | 100KHz/1V |
| SEP1005E-R72M-LF | 0.72 \pm 20% | 35.0 | 22.0 | 1.430 | 1.30 | 100KHz/1V |
| SEP1005E-1R2M-LF | 1.2 \pm 20% | 25.0 | 20.0 | 1.980 | 1.80 | 100KHz/1V |
| SEP1005E-1R8M-LF | 1.8 \pm 20% | 18.0 | 16.0 | 3.850 | 3.50 | 100KHz/1V |
| SEP1005E-2R4M-LF | 2.4 \pm 20% | 17.0 | 14.0 | 5.230 | 4.75 | 100KHz/1V |
| SEP1005E-3R3M-LF | 3.3 \pm 20% | 15.0 | 12.0 | 6.490 | 5.90 | 100KHz/1V |
| SEP1005E-4R2M-LF | 4.2 \pm 20% | 14.0 | 11.0 | 7.810 | 7.10 | 100KHz/1V |
| SEP1005E-5R5M-LF | 5.5 \pm 20% | 12.0 | 10.0 | 11.33 | 10.3 | 100KHz/1V |
| SEP1005E-6R5M-LF | 6.5 \pm 20% | 10.0 | 8.40 | 13.75 | 12.5 | 100KHz/1V |
| SEP1005E-7R8M-LF | 7.8 \pm 20% | 9.50 | 8.00 | 14.96 | 13.6 | 100KHz/1V |
| SEP1005E-100M-LF | 10 \pm 20% | 8.50 | 7.20 | 17.93 | 16.3 | 100KHz/1V |
| SEP1005E-160M-LF | 16 \pm 20% | 6.50 | 5.00 | 37.95 | 34.5 | 100KHz/1V |

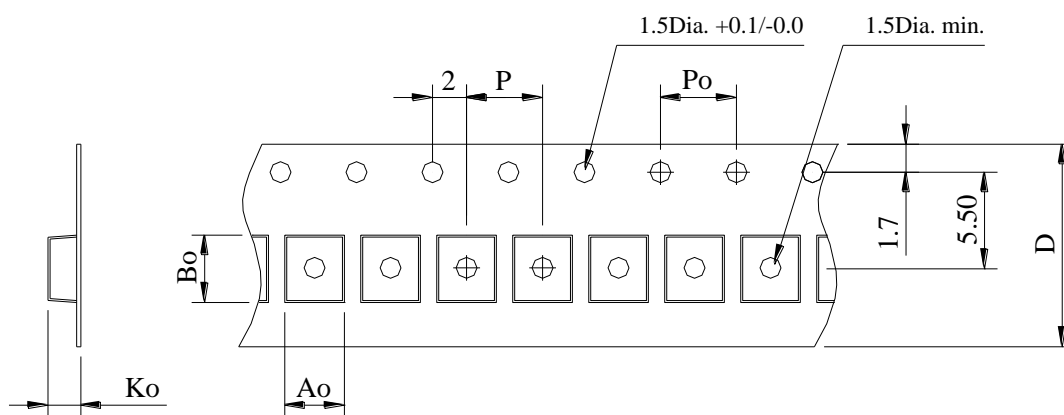
- I_{sat} : DC current at which the inductance drops 30% (typ) from its value without current.
- I_{rms} : Average current for a 40°C temperature rise above 25°C ambient.
- Operating temperature range -55°C to +125°C.



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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" | 800 | 12.2 | 11.2 | 5.2 | 16 | 4.0 | 24 |