



## RCS1318B SERIES ~ Through Hole Shielded Inductors



RoHS Compliant

### FEATURES

- Magnetically shielded construction and low leakage flux type .
- 7.5mm-pitch , 2 terminal fixed inductor .
- Lead free and RoHS compliant
- Ideal for use as choke coil for high current DC-DC circuit in all types of electronic instruments .

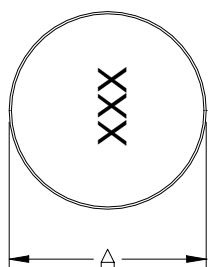
### PART NUMBERING SYSTEM

|            |                  |   |                |   |           |
|------------|------------------|---|----------------|---|-----------|
| <b>RCS</b> | <b>1 3 1 8 B</b> | — | <b>6 8 0 K</b> | — | <b>LF</b> |
| TYPE       | DIMENSIONS       |   | INDUCTANCE     |   | LEAD FREE |

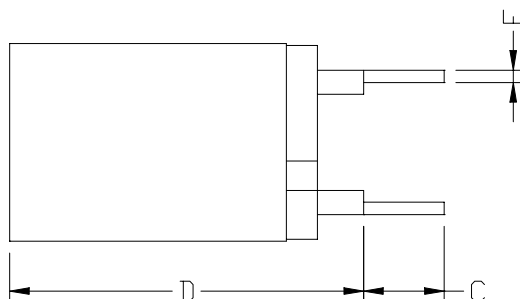
### SHAPES AND DIMENSIONS

UNIT : mm

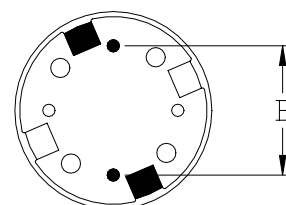
TOP VIEW



FRONT VIEW



BOTTOM VIEW



**A=13.5 Max. B=7.5 Ref. C=4.0 Ref. D=18.5 Max. E=0.7 Ref.**



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### SPECIFICATION TABLE

| PART NUMBER      | INDUCTANCE<br>( $\mu$ H) | DCR ( $\Omega$ )<br>(Max.) | IDC ( A )<br>(Max.) | TEST FREQ.<br>( f ) |
|------------------|--------------------------|----------------------------|---------------------|---------------------|
| RCS1318B-100K-LF | 10 $\pm$ 10%             | 0.0370                     | 7.50                | 1KHz                |
| RCS1318B-150K-LF | 15 $\pm$ 10%             | 0.0447                     | 6.00                | 1KHz                |
| RCS1318B-180K-LF | 18 $\pm$ 10%             | 0.0662                     | 5.50                | 1KHz                |
| RCS1318B-220K-LF | 22 $\pm$ 10%             | 0.0739                     | 5.00                | 1KHz                |
| RCS1318B-240K-LF | 24 $\pm$ 10%             | 0.0770                     | 4.80                | 1KHz                |
| RCS1318B-270K-LF | 27 $\pm$ 10%             | 0.0831                     | 4.50                | 1KHz                |
| RCS1318B-330K-LF | 33 $\pm$ 10%             | 0.0908                     | 4.00                | 1KHz                |
| RCS1318B-390K-LF | 39 $\pm$ 10%             | 0.0970                     | 3.70                | 1KHz                |
| RCS1318B-470K-LF | 47 $\pm$ 10%             | 0.132                      | 3.50                | 1KHz                |
| RCS1318B-560K-LF | 56 $\pm$ 10%             | 0.154                      | 3.00                | 1KHz                |
| RCS1318B-680K-LF | 68 $\pm$ 10%             | 0.200                      | 2.70                | 1KHz                |
| RCS1318B-820K-LF | 82 $\pm$ 10%             | 0.225                      | 2.50                | 1KHz                |
| RCS1318B-101K-LF | 100 $\pm$ 10%            | 0.248                      | 2.20                | 1KHz                |
| RCS1318B-121K-LF | 120 $\pm$ 10%            | 0.279                      | 2.00                | 1KHz                |
| RCS1318B-151K-LF | 150 $\pm$ 10%            | 0.450                      | 1.80                | 1KHz                |
| RCS1318B-181K-LF | 180 $\pm$ 10%            | 0.501                      | 1.70                | 1KHz                |
| RCS1318B-221K-LF | 220 $\pm$ 10%            | 0.550                      | 1.50                | 1KHz                |
| RCS1318B-271K-LF | 270 $\pm$ 10%            | 0.600                      | 1.20                | 1KHz                |
| RCS1318B-331K-LF | 330 $\pm$ 10%            | 0.700                      | 1.10                | 1KHz                |
| RCS1318B-391K-LF | 390 $\pm$ 10%            | 1.40                       | 1.00                | 1KHz                |
| RCS1318B-471K-LF | 470 $\pm$ 10%            | 1.50                       | 0.90                | 1KHz                |
| RCS1318B-561K-LF | 560 $\pm$ 10%            | 1.60                       | 0.85                | 1KHz                |
| RCS1318B-681K-LF | 680 $\pm$ 10%            | 1.80                       | 0.80                | 1KHz                |
| RCS1318B-821K-LF | 820 $\pm$ 10%            | 2.20                       | 0.70                | 1KHz                |
| RCS1318B-102K-LF | 1000 $\pm$ 10%           | 2.50                       | 0.50                | 1KHz                |

- Inductors tolerance K= $\pm$ 10% .
- DC current at which the inductance drops 10% (typ) from its value without current.
- Operating temperature range -25 $^{\circ}$ C to +105 $^{\circ}$ C ,
- Electrical specifications at 20 $^{\circ}$ C .