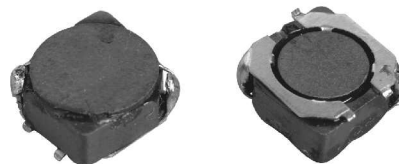


## SDBS Series

## SDBS 0703 Type

## FEATURES

- ⊙ Low profile.
- ⊙ Magnetically shielded.
- ⊙ Available on tape and reel for auto-insertion.
- ⊙ Ideal for a variety of DC-DC converter inductor applications.



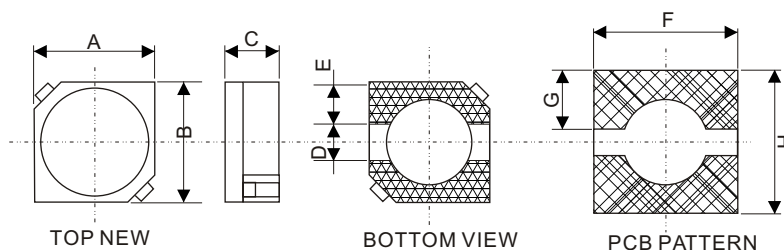
## ELECTRICAL CHARACTERISTICS

- ⊙ Tested at 10 kHz.
- ⊙ Inductance drop = 30% typ. at rated IDC
- ⊙ Operating temperature range 25°C ~ +85°C

## STANDARD ELECTRICAL SPECIFICATION

| Part number | Inductance<br>[ $\mu$ H] | Inductance<br>Tolerance | DC Resistance<br>[ $\Omega$ ] (max.) | I.D.C<br>[A] (max.) |
|-------------|--------------------------|-------------------------|--------------------------------------|---------------------|
| 3R0         | 3.0                      | $\pm 30\%$              | 0.024                                | 3.00                |
| 3R9         | 3.9                      |                         | 0.027                                | 2.60                |
| 5R0         | 5.0                      |                         | 0.031                                | 2.40                |
| 6R0         | 6.0                      |                         | 0.035                                | 2.25                |
| 7R3         | 7.3                      |                         | 0.054                                | 2.10                |
| 8R6         | 8.6                      |                         | 0.058                                | 1.85                |
| 100         | 10.0                     |                         | 0.065                                | 1.70                |
| 120         | 12.0                     |                         | 0.070                                | 1.55                |
| 150         | 15.0                     |                         | 0.084                                | 1.40                |
| 180         | 18.0                     |                         | 0.095                                | 1.32                |
| 220         | 22.0                     |                         | 0.128                                | 1.20                |
| 270         | 27.0                     |                         | 0.142                                | 1.05                |
| 330         | 33.0                     |                         | 0.165                                | 0.97                |
| 390         | 39.0                     |                         | 0.210                                | 0.86                |
| 470         | 47.0                     |                         | 0.238                                | 0.80                |
| 560         | 56.0                     |                         | 0.277                                | 0.73                |
| 680         | 68.0                     |                         | 0.304                                | 0.65                |
| 820         | 82.0                     |                         | 0.390                                | 0.60                |
| 101         | 100.0                    |                         | 0.535                                | 0.54                |

## CONSTRUCTION



## DIMENSIONS : mm

| A             | B             | C        | D   | E    | F   | G    | H   |
|---------------|---------------|----------|-----|------|-----|------|-----|
| $6.7 \pm 0.3$ | $6.7 \pm 0.3$ | 3.0 max. | 2.0 | 2.25 | 6.7 | 2.35 | 6.7 |