

# SLM Series

## DIP Power Inductors

### FEATURES

Halogen Free products

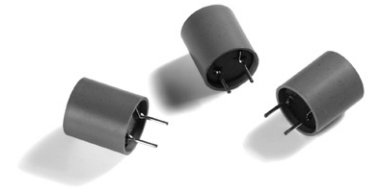
Unshield construction

DIP drum Inductor

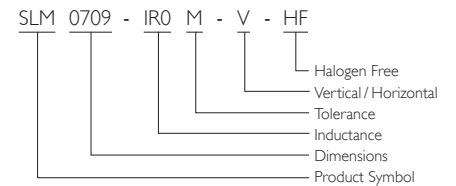
### APPLICATIONS

Televisions, VCRs and PC

DC-DC converters and other electronic equipments



### PRODUCT IDENTIFICATION

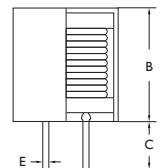
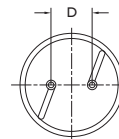
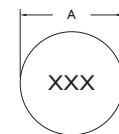


■ Tolerance: J =  $\pm 5\%$ , K =  $\pm 10\%$ , L =  $\pm 15\%$ , M =  $\pm 20\%$ ,  
P =  $\pm 25\%$ , N =  $\pm 30\%$ , Y = min

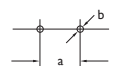
### SHAPES AND DIMENSIONS

Unit: mm

| TYPE    | A              | B              | C             | D           | E                             |
|---------|----------------|----------------|---------------|-------------|-------------------------------|
| SLM0709 | 7.7            | 9.5            | 5.0 $\pm$ 1.0 | 3.5         | $\varnothing$ 0.60 $\pm$ 0.05 |
| SLM0808 | 8.5 $\pm$ 0.3  | 8.3 $\pm$ 0.5  | 5.0 $\pm$ 1.0 | 5 +0.8/-0.5 | $\varnothing$ 0.60 $\pm$ 0.05 |
| SLM1112 | 11.2 $\pm$ 0.3 | 12.2 $\pm$ 0.3 | 5.0 $\pm$ 1.0 | 5 +1.0/-0.5 | $\varnothing$ 0.65 $\pm$ 0.05 |



Land Pattern





## ELECTRICAL CHARACTERISTICS SLM0709

| PART NO.    | INDUCTANCE<br>( $\mu$ H) | TOLERANCE<br>( $\pm$ %) | DC RESISTANCE<br>( $\Omega$ ) Max. | NOMINAL CURRENT<br>(A) Max. |
|-------------|--------------------------|-------------------------|------------------------------------|-----------------------------|
| SLM0709-1R0 | 1.00                     | 20.0                    | 0.006                              | 6.60                        |
| SLM0709-1R5 | 1.50                     | 20.0                    | 0.008                              | 5.40                        |
| SLM0709-2R2 | 2.20                     | 20.0                    | 0.011                              | 4.00                        |
| SLM0709-3R3 | 3.30                     | 20.0                    | 0.018                              | 3.60                        |
| SLM0709-4R7 | 4.70                     | 20.0                    | 0.022                              | 3.10                        |
| SLM0709-6R8 | 6.80                     | 20.0                    | 0.028                              | 2.50                        |
| SLM0709-100 | 10.00                    | 10.0                    | 0.043                              | 2.10                        |
| SLM0709-150 | 15.00                    | 10.0                    | 0.056                              | 1.70                        |
| SLM0709-220 | 22.00                    | 10.0                    | 0.086                              | 1.40                        |
| SLM0709-330 | 33.00                    | 10.0                    | 0.140                              | 1.10                        |
| SLM0709-470 | 47.00                    | 10.0                    | 0.170                              | 0.96                        |
| SLM0709-680 | 68.00                    | 10.0                    | 0.280                              | 0.79                        |
| SLM0709-101 | 100.00                   | 10.0                    | 0.330                              | 0.66                        |
| SLM0709-151 | 150.00                   | 10.0                    | 0.560                              | 0.53                        |
| SLM0709-221 | 220.00                   | 10.0                    | 0.720                              | 0.44                        |
| SLM0709-331 | 330.00                   | 10.0                    | 1.100                              | 0.36                        |
| SLM0709-471 | 470.00                   | 10.0                    | 1.700                              | 0.30                        |
| SLM0709-681 | 680.00                   | 10.0                    | 2.300                              | 0.25                        |
| SLM0709-102 | 1000.00                  | 10.0                    | 4.300                              | 0.20                        |
| SLM0709-152 | 1500.00                  | 10.0                    | 5.000                              | 0.17                        |

Note:

Inductance test frequency at 1KHz

Isat: DC current at which the inductance drops 10% from its value without current

Irms: The actual current when temperature of coil becomes  $\Delta T = 25^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS SLM0808

| PART NO.    | INDUCTANCE<br>( $\mu$ H) | TOLERANCE<br>( $\pm$ %) | Q<br>Min. | TEST FREQUENCY<br>L/Q (MHz) Min. | DC RESISTANCE<br>( $\Omega$ ) Max. | Isat<br>(A) Max. | Irms<br>(A) Max. |
|-------------|--------------------------|-------------------------|-----------|----------------------------------|------------------------------------|------------------|------------------|
| SLM0808-3R3 | 3.30                     | 20.0                    | 10        | 1K / 7.96M                       | 0.017                              | 4.50             | 3.80             |
| SLM0808-4R7 | 4.70                     | 20.0                    | 10        | 1K / 7.96M                       | 0.021                              | 3.80             | 3.50             |
| SLM0808-6R8 | 6.80                     | 20.0                    | 10        | 1K / 7.96M                       | 0.025                              | 3.20             | 3.10             |
| SLM0808-100 | 10.00                    | 10.0                    | 20        | 1K / 2.52M                       | 0.031                              | 2.60             | 2.70             |
| SLM0808-150 | 15.00                    | 10.0                    | 20        | 1K / 2.52M                       | 0.042                              | 2.10             | 2.40             |
| SLM0808-220 | 22.00                    | 10.0                    | 20        | 1K / 2.52M                       | 0.070                              | 1.70             | 1.90             |
| SLM0808-330 | 33.00                    | 10.0                    | 20        | 1K / 2.52M                       | 0.092                              | 1.40             | 1.50             |
| SLM0808-470 | 47.00                    | 10.0                    | 20        | 1K / 2.52M                       | 0.130                              | 1.20             | 1.30             |
| SLM0808-680 | 68.00                    | 10.0                    | 20        | 1K / 2.52M                       | 0.160                              | 1.00             | 1.10             |
| SLM0808-101 | 100.00                   | 10.0                    | 20        | 1K / 796K                        | 0.250                              | 0.80             | 0.94             |
| SLM0808-151 | 150.00                   | 10.0                    | 20        | 1K / 796K                        | 0.400                              | 0.67             | 0.73             |
| SLM0808-221 | 220.00                   | 10.0                    | 15        | 1K / 796K                        | 0.530                              | 0.54             | 0.64             |
| SLM0808-331 | 330.00                   | 10.0                    | 15        | 1K / 796K                        | 0.780                              | 0.45             | 0.52             |
| SLM0808-471 | 470.00                   | 10.0                    | 15        | 1K / 796K                        | 1.000                              | 0.38             | 0.46             |
| SLM0808-681 | 680.00                   | 10.0                    | 15        | 1K / 796K                        | 1.500                              | 0.32             | 0.37             |
| SLM0808-102 | 1000.00                  | 10.0                    | 30        | 1K / 252K                        | 2.200                              | 0.26             | 0.30             |
| SLM0808-152 | 1500.00                  | 10.0                    | 30        | 1K / 252K                        | 3.500                              | 0.21             | 0.25             |

Note:

Inductance test frequency at 1KHz

Isat: DC current at which the inductance drops 10% from its value without current

Irms: The actual current when temperature of coil becomes  $\Delta T = 25^{\circ}\text{C}$



ELECTRICAL CHARACTERISTICS SLM1112

| PART NO.     | INDUCTANCE<br>(μH) | TOLERANCE<br>(±%) | Q<br>Min. | TEST FREQUENCY<br>L/Q (MHz) Min. | DC RESISTANCE<br>(Ω) Max. | Isat<br>(A) Max. | Irms<br>(A) Max. |
|--------------|--------------------|-------------------|-----------|----------------------------------|---------------------------|------------------|------------------|
| SLM1112-1R0* | 1.00               | 20.0              | 15        | 1K / 7.96M                       | 0.058                     | 14.00            | 7.70             |
| SLM1112-2R2  | 2.20               | 20.0              | 15        | 1K / 7.96M                       | 0.073                     | 10.00            | 6.70             |
| SLM1112-3R3  | 3.30               | 20.0              | 10        | 1K / 7.96M                       | 0.010                     | 8.80             | 5.90             |
| SLM1112-4R7  | 4.70               | 20.0              | 10        | 1K / 7.96M                       | 0.015                     | 7.20             | 4.80             |
| SLM1112-6R8  | 6.80               | 20.0              | 10        | 1K / 7.96M                       | 0.016                     | 6.10             | 4.60             |
| SLM1112-100  | 10.00              | 20.0              | 20        | 1K / 2.52M                       | 0.025                     | 5.00             | 3.70             |
| SLM1112-150  | 15.00              | 20.0              | 20        | 1K / 2.52M                       | 0.029                     | 4.20             | 3.40             |
| SLM1112-220  | 22.00              | 10.0              | 20        | 1K / 2.52M                       | 0.040                     | 3.40             | 2.90             |
| SLM1112-330  | 33.00              | 10.0              | 30        | 1K / 2.52M                       | 0.062                     | 2.80             | 2.30             |
| SLM1112-470  | 47.00              | 10.0              | 30        | 1K / 2.52M                       | 0.075                     | 2.30             | 2.10             |
| SLM1112-680  | 68.00              | 10.0              | 20        | 1K / 2.52M                       | 0.130                     | 1.90             | 1.60             |
| SLM1112-101  | 100.00             | 10.0              | 20        | 1K / 796K                        | 0.160                     | 1.60             | 1.40             |
| SLM1112-151  | 150.00             | 10.0              | 20        | 1K / 796K                        | 0.260                     | 1.30             | 1.10             |
| SLM1112-221  | 220.00             | 10.0              | 20        | 1K / 796K                        | 0.330                     | 1.10             | 1.00             |
| SLM1112-331  | 330.00             | 10.0              | 20        | 1K / 796K                        | 0.520                     | 0.88             | 0.82             |
| SLM1112-471  | 470.00             | 10.0              | 10        | 1K / 796K                        | 0.660                     | 0.75             | 0.72             |
| SLM1112-681  | 680.00             | 10.0              | 10        | 1K / 796K                        | 1.100                     | 0.61             | 0.56             |
| SLM1112-102  | 1000.00            | 5.0               | 20        | 1K / 796K                        | 1.400                     | 0.51             | 0.50             |
| SLM1112-152  | 1500.00            | 5.0               | 30        | 1K / 252K                        | 2.400                     | 0.43             | 0.38             |
| SLM1112-222  | 2200.00            | 5.0               | 20        | 1K / 252K                        | 3.200                     | 0.35             | 0.33             |
| SLM1112-332  | 3300.00            | 5.0               | 30        | 1K / 252K                        | 4.900                     | 0.28             | 0.26             |
| SLM1112-472  | 4700.00            | 5.0               | 30        | 1K / 252K                        | 7.600                     | 0.24             | 0.21             |

Note:  
 Inductance test frequency at 1KHz  
 Isat: DC current at which the inductance drops 10% from its value without current  
 Irms: The actual current when temperature of coil becomes ΔT = 25 °C