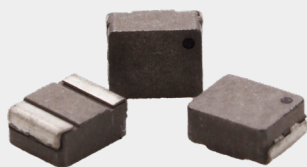


Tailored for high-efficiency applications including DC/DC converters, portable devices, battery-powered equipment, and power supplies.

Offering optimal performance with MPS ICs, these inductors provide a highly efficient power solution in a compact size for industrial and commercial electronics.

## Molded Inductors

Fully shielded, combining excellent balance between soft saturation, high current stability, high efficiency, and minimal EMI.



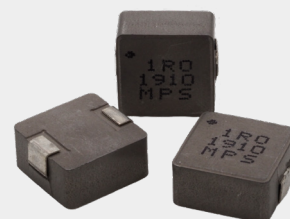
### MPL-AT Series

Low Profile  
Cost-Effective Design



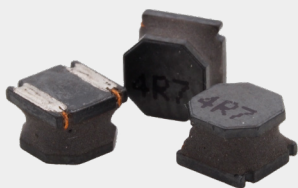
### MPL-AL Series

Maximum Efficiency  
Lowest DCR



### MPL-AY Series

Wide Range of Sizes and  
Inductances



### MPL-SE Series

External Epoxy Resin for Better  
Magnetic Characteristics

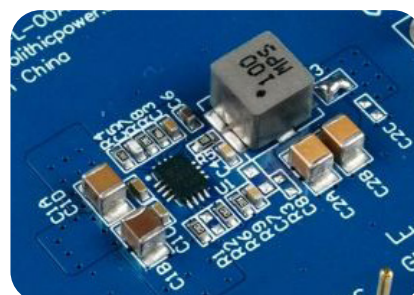
## Semi-Shielded Inductors

Striking a balance between the features of non-shielded and fully shielded inductors, offering a cost-effective solution with EMI reduction compared to non-shielded inductors.

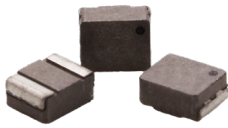
## Evaluation Boards

EVBs assist developers in testing circuit functionality, reducing risks, and speeding up development by predicting performance.

The EVB datasheet provides detailed information on how the device will perform with different inductors, including their functions and test results.



## MPL-AT Series



### Size Range

2.0x1.0  
2.5x1.2

### Fully Shielded

- Best Magnetic Shielding Effect
- Lowest Magnetic Flux Leakage
- Minimizing Potential Audio Noise

### Start of Winding Indication

- Self-Shielding Effect for Best EMI Performance

### Compact Design

- Maximizing Core Utilization for Highest Current Handling
- Highest Performance Due to the Extremely Low DC Resistance
- Robust Design Suitable for High-Stress Environments

### Soft Saturation

- Wider Inductor Operating Range
- Low Inductance Drop across Current Range
- Low Ripple Current for Stable Designs
- Inductance Stable across Temperatures

**L:** 0.33 $\mu$ H to 22 $\mu$ H

**I<sub>SAT</sub>:** Up to 64A

**Temperature Range:** -40°C to +155°

## MPL-AL Series



### Size Range

4.0x2.0  
5.0x3.0, 5.0x5.0  
6.0x5.0, 6.0x6.0

## MPL-AY Series



### Size Range

3.0x2.0  
4.0x2.0  
10x5.0  
12x6.5

## Semi-Shielded Inductors

## MPL-SE Series



### Size Range

2.5x1.2  
4.0x3.0  
5.0x4.0  
6.0x4.0

### Magnetically Shielded via External Epoxy Resin

#### Compared to Non-Shielded Inductors:

- Better EMI Performance
- Lower Magnetic Flux Leakage
- Better Temperature Stability

#### Compared to Shielded Inductors:

- Higher Current
- Cost-Effective Solution

#### Compact and Robust Construction

**L:** 0.47 $\mu$ H to 47 $\mu$ H

**I<sub>SAT</sub>:** Up to 16A

**Temperature Range:** -40°C to +125°C

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