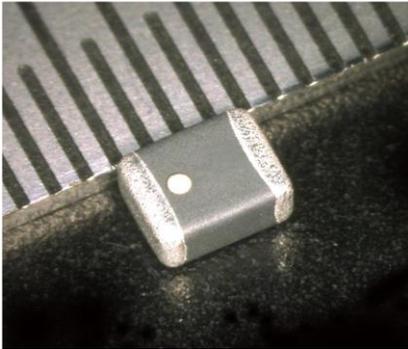


# High current Power Inductor : MCP2016D series



**MCP2016D series**  
(2.0 x 1.6 x 1.0mm max)

## Features

- 2.0x1.6 mm and 1.0 mm in height (compact size): CAE and fine printing technology made this compact size possible
- Stable minimum DC resistance in the class
- High speed mounting: Using SMT mounter makes less than a second mounting possible
- Excellent mounting strength by SMD chip making
- Reduced noise over 2/3 of coil inductor by optimal design of CAD
- Completely lead-free product and support lead-free solder

## Applications

- DC-DC converters and power modules used for the following equipments. Compact electrical instruments such as Smartphones, Tablet, Ultrabook, DSC, DVC, PDA, DVD and HDD.

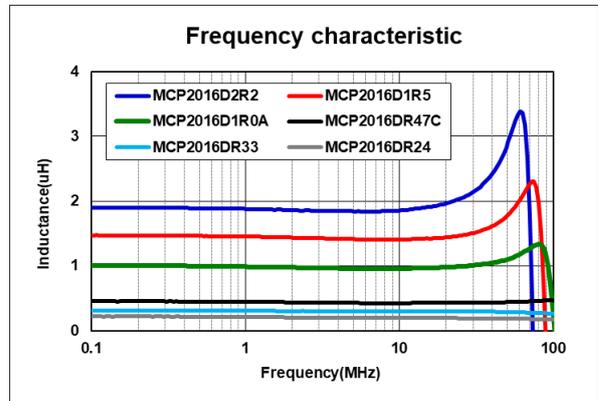
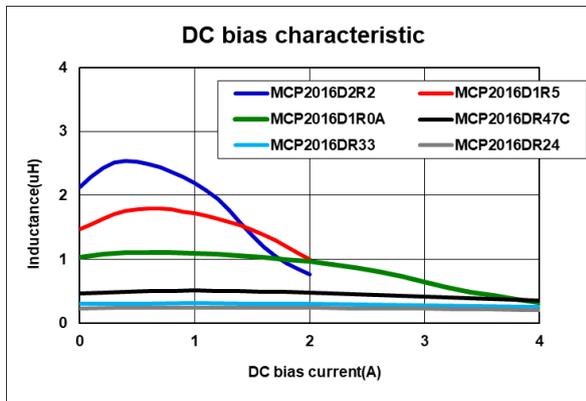
## Specifications

Product name	MCP2016D					
	2R2	1R5	1R0A	R47C	R33	R24
Inductance( $\mu$ H) at 1MHz	2.2 $\pm$ 20%	1.5 $\pm$ 20%	1.0 $\pm$ 20%	0.47 $\pm$ 20%	0.33 $\pm$ 20%	0.24 $\pm$ 20%
DC resistance(Ohm) Typ. (Max.)	0.160 (0.208)	0.120 (0.156)	0.075 (0.097)	0.033 (0.042)	0.030 (0.039)	0.020 (0.026)
Rated current(A)_1* Typ. (Max.)	1.7 (1.5)	2.0 (1.7)	2.8 (2.2)	3.8 (3.5)	4.0 (3.7)	4.2 (3.9)
Rated current(A)_2* Typ. (Max.)	1.4 (1.1)	1.9 (1.5)	2.8 (2.5)	4.1 (3.7)	5.1 (4.7)	5.6 (5.0)

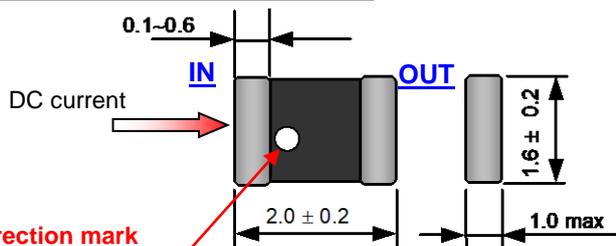
Rated current\_1\* : In case temperature rise to 40°C due to self-heating.

Operating temperature range: -40~85°C

Rated current\_2\* : The saturation current : L=-30% down from initial L value.



## Shapes and Dimensions

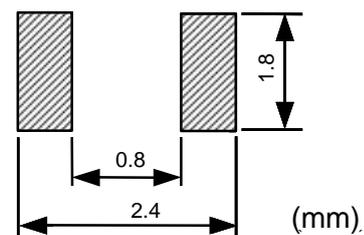


**Direction mark**

**This inductor has polarity.**

**When you use this inductor, be sure to connect positive to the side of direction marker.**

### Recommended land pattern



**Standard package : Emboss taping (reel)**

■ The description in this catalogue is subject to change without notice.

As of Aug, 2021