

# Product Presentation



## Power Choke Coil MCW-0630-XXX-S1 Type

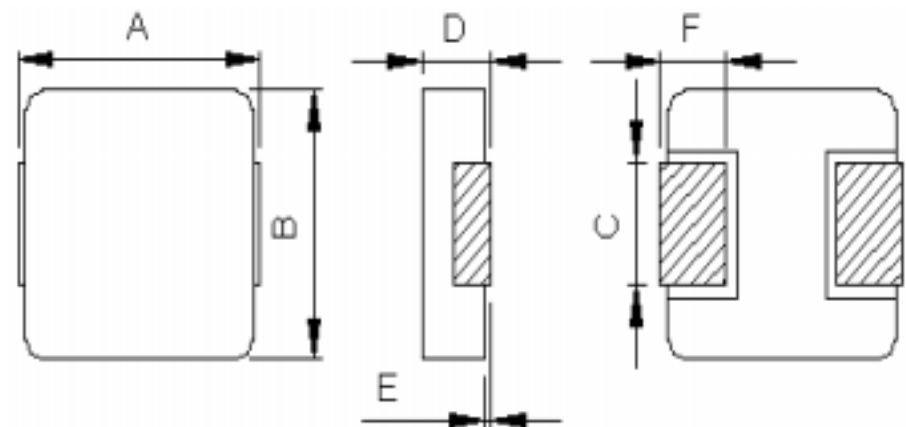
### Features

High performance (Isat) realized by metal dust core.  
Low profile: Thickness max. 3.0mm;  
Low loss and low resistance  
Capable of corresponding high frequency (3MHz)  
100% lead (Pb) free meet RoHS standards

### Application

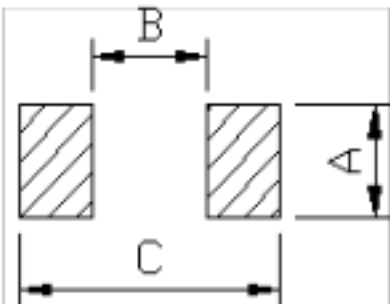
DC/DC converters for laptop motherboards/CPU  
Thin type of on-board power supply module for  
Voltage regulator VRM for server

### Outline Dimensions



### Recommend Land Pattern Dimensions

The customer shall determine the land dimensions shown above after confirming and safety.



/	mm
A	3.5
B	3.7
C	8.4

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
MCW-0630-XXX-S1	6.95 ± 0.35	6.6 ± 0.2	3.0 ± 0.5	3.0 Max	0~+0.15	1.60 ± 0.30

### Specifications

感量

等效电阻

电流

Part Number	L0(uH) Inductance (uH ) @ ( 0A)	Rdc (m ? ) @25 ° C		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Isat ( A)
		Typical	Maximum		
MCW-0630-R20-S1	0.20 ± 20% uH	2.4 3.0	毫欧	24.0	41.0
MCW-0630-R22-S1	0.22 ± 20%	2.5 2.8		23.0	40.0
MCW-0630-R25-S1	0.25 ± 20%	3.0 3.5		21.0	39.0
MCW-0630-R33-S1	0.33 ± 20%	3.5 3.9		20.0	30.0
MCW-0630-R47-S1	0.47 ± 20%	4.0 4.2		17.5	26.0
MCW-0630-R56-S1	0.56 ± 20%	4.7 5.0		16.5	25.5
MCW-0630-R68-S1	0.68 ± 20%	5.0 5.5		15.5	25.0
MCW-0630-R75-S1	0.75 ± 20%	5.4 6.2		14.0	24.5
MCW-0630-R82-S1	0.82 ± 20%	6.7 8.0		13.0	24.0
MCW-0630-1R0-S1	1.00 ± 20%	9.0 10.0		11.0	22.0
MCW-0630-1R2-S1	1.20 ± 20%	10.0 12.0		10.0	20.0
MCW-0630-1R5-S1	1.50 ± 20%	14.0 15.0		9.0	18.0
MCW-0630-2R0-S1	2.00 ± 20%	16.0 18.0		8.2	14.0
MCW-0630-2R2-S1	2.20 ± 20%	18.0 20.0		8.0	14.0
MCW-0630-2R5-S1	2.50 ± 20%	20.0 22.0		7.0	14.0
MCW-0630-3R3-S1	3.30 ± 20%	28.0 30.0		6.0	13.5
MCW-0630-4R7-S1	4.70 ± 20%	37.0 40.0		5.5	10.0
MCW-0630-6R8-S1	6.80 ± 20%	54.0 60.0		4.5	8.0
MCW-0630-8R2-S1	8.20 ± 20%	54.0 60.0		4.5	6.0
MCW-0630-100-S1	10.0 ± 20%	60.0 68.0		4.0	5.5

If you require another part number please contact with us.

#### Note

- All test data is reference to 25 ambient.
- Idc: DC current (A) that will cause an approximate T of 40
- Isat : DC current (A) that will cause L0 to drop approximately 20%
- Operat between temperature range -55 to +125
- The part temperature (ambient + temp rise ) should not exceed 125 under worse case operating conditions.  
Circuit design, component. PWB trace size and thickness, airflow and other cooling procision all affect the part temperature. Part temperature should be verified in the den application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower