

Product Presentation

Power Choke Coil MCW-0630-XXX-N2 Type

※ Features

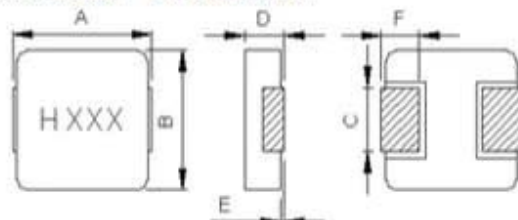
High performance (Isat) realized by metal dust core.
Low profile: Thickness max. 3.0mm;
Low loss and low resistance
Capable of corresponding high frequency (1MHz)
100% lead (Pb) free meet RoHS standards

※ Application

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

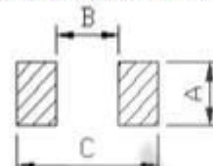


※ Outline Dimensions



※ Recommend Land Pattern Dimensions

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



Item	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-N2	6.95±0.35	6.6±0.2	3.0±0.5	3.0 Max	0~+0.15	1.60±0.30

※ Specifications

Part Number	L0(uH) Inductance (uH) @ (0A)	Rdc (mΩ) @25°C		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Isat (A)
		Typical	Maximum		
MCW-0630-1R0-N2	1.00±20%	7.0	7.5	12.0	15.0
MCW-0630-1R2-N2	1.20±20%	8.0	10.5	9.0	12.0
MCW-0630-1R5-N2	1.50±20%	10.6	12.1	9.0	14.0
MCW-0630-2R2-N2	2.20±20%	15.5	17.5	7.0	10.0
MCW-0630-2R5-N2	2.50±20%	16.0	18.0	7.0	10.0
MCW-0630-3R3-N2	3.30±20%	23.0	26.0	6.5	9.5
MCW-0630-4R7-N2	4.70±20%	34.5	38.0	5.0	6.5
MCW-0630-5R6-N2	5.60±20%	36.0	42.0	5.0	6.25
MCW-0630-6R8-N2	6.80±20%	50.0	54.0	4.5	6.0
MCW-0630-8R2-N2	8.20±20%	58.5	65.0	4.0	6.0
MCW-0630-100-N2	10.00±20%	71.0	76.0	4.0	5.5
MCW-0630-120-N2	12.00±20%	85.0	98.0	3.0	4.5
MCW-0630-150-N2	15.00±20%	98.0	115.0	3.0	3.8
MCW-0630-220-N2	22.00±20%	161.0	189.0	1.5	3.1
MCW-0630-330-N2	33.00±20%	218.0	257.0	1.0	2.9

If you require another part number please contact with us.

※ Note

1. All test data is reference to 25 °C ambient.
2. Idc: DC current (A) that will cause an approximate ΔT of 40°C
3. Isat : DC current (A) that will cause L0 to drop approximately 30%
4. Operating Temperature Range -55°C to +125°C
5. The part temperature (ambient + temp rise) should not exceed 125°C under worse case operating conditions.
Circuit design, component, PWB trace size and thickness, airflow and other cooling precision all affect the part temperature. Part temperature should be verified in the den application.
6. The rated current as listed is either the saturation current or the heating current depending on which value is lower.