



◆ **Features**

- 1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
- 2、Metallization on ferrite core results in excellent shock resistance and damage-free durability;
- 3、Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI);
- 4、30% higher current rating than conventional inductors of equal size;
- 5、Take up less PCB real estate and save more power.



◆ **Applications**

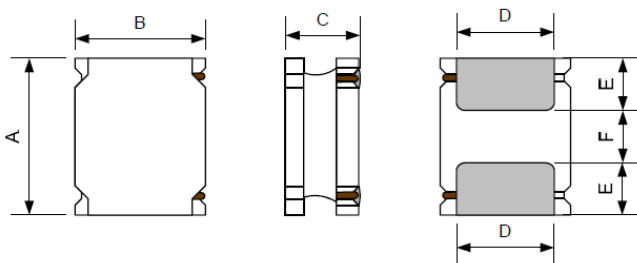
- 1、LED Lighting;
- 2、Mobile devices with multifunction such as adding color TV and camera;
- 3、Flat-screen TVs, blue-ray disc recorders, set top boxes;
- 4、Notebooks, desktop computers, servers, graphic cards;
- 5、Portable gaming devices, personal navigation systems, personal multimedia devices;
- 6、Automotive systems
- 7、Telecomm base stations

◆ **Lead Free Part Numbering**

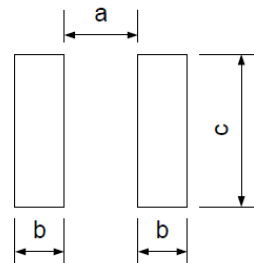
**CMLW 4015 S 100 M S T**  
**(1) (2) (3) (4) (5) (6) (7)**

- (1) Series Type
- (2) Dimension: L X H
- (3) Material Code
- (4) Inductance: 2R2=2.2μH ;  
100=10μH; 101=100μH
- (5) Inductance Tolerance: M=±20%, N=±30%
- (6) Company Code
- (7) Packaging : Tape Carrier Package

◆ **Dimensions**



Recommended Land Pattern



Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
CMLW4015S	4.0±0.2	4.0±0.2	1.5Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.9	1.1	3.7

◆ **Electrical Characteristics**

- 1) Operating temperature range (Including self-heating): -40°C ~ +125°C
- 2) Storage temperature range (packaging conditions): -10°C~+40°C and RH 70% (Max.)

◆ **Construction and material**



Code	Part Name	Material Name
①	Ferrite Core	Ni-Zn Ferrite
②	Wire	Polyurethane system enameled copper wire
③	Magnetic Glue	Epoxy resin and magnetic powder
④	Plating Electrodes	Ag
		Ni
		Sn
⑤	Outer Electrodes	Top surface solder coating Sn、Ag、Cu

◆ **REFLOW-PROFILE**

**Limit Profile**



**Standard Profile (for EOC Solder paste S70G-HF)**



◆ **Specification**

Part Number	Inductance (μH) @100KHz, 1V	DC Resistance (Ω)	Min. Self-resonant Frequency (MHz)	Saturation Current (A)	Heat Rating Current (A)
		±30% (Ω) DCR	(MHz) S.R.F	Isat	Irms
<b>CMLW4015 Series</b>					
CMLW4015S1R0NST	1.0±30%	0.028	90	3.80	2.00
CMLW4015S1R5NST	1.5±30%	0.056	88	2.80	2.70
CMLW4015S2R2MST	2.2±20%	0.088	74	2.60	2.60
CMLW4015S3R3MST	3.3±20%	0.099	71	2.20	2.20
CMLW4015S4R7MST	4.7±20%	0.136	60	2.00	2.00
CMLW4015S6R8MST	6.8±20%	0.204	57	1.60	1.60
CMLW4015S100MST	10±20%	0.221	54	1.10	1.10
CMLW4015S150MST	15±20%	0.367	50	0.94	0.94
CMLW4015S220MST	22±20%	0.449	50	0.80	0.80

◆ **Note**

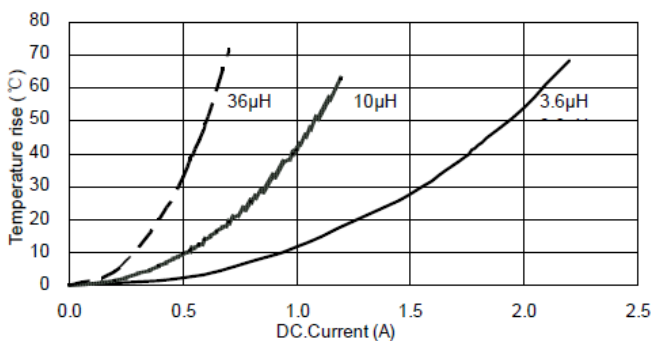
- 1: All test data is referenced to 20°C ambient;
- 2: Rated current: Isat or Irms, whichever is smaller;
- 3: Isat: DC current at which the inductance drops approximate 30% from its value without current;
- 4: Irms: DC current that causes the temperature rise ( $\Delta T = 40^\circ C$ ) from 20°C ambient;
- 5: Operating temperature -55°C ~ +125°C.

◆ **Standard Packing Quantity: 1000 pcs/reel**

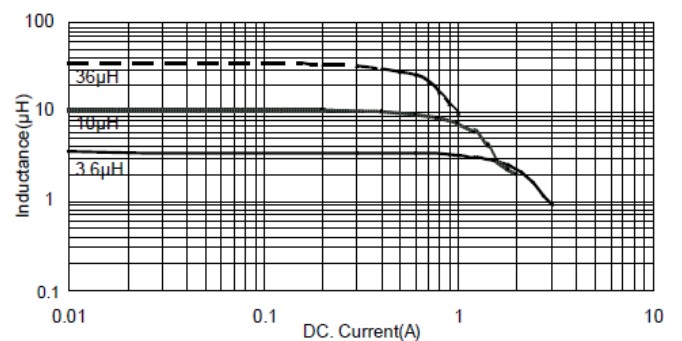
◆ **TYPICAL ELECTRICAL CHARACTERISTICS**

**CMLW4015S Series**

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristic



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