



◆ 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

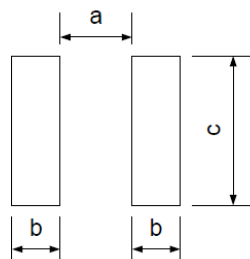
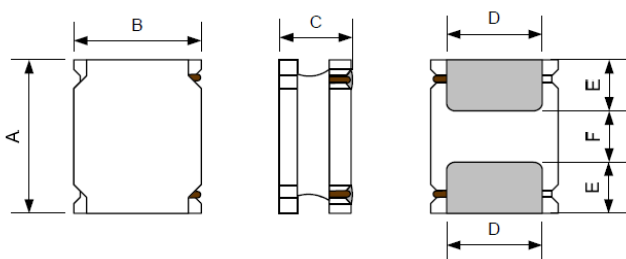
◆ Lead Free Part Numbering

CMLW 8060 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



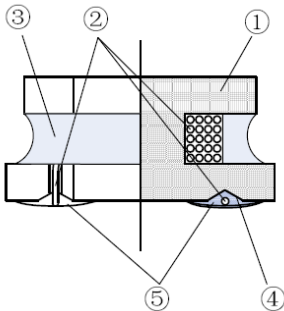
Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
CMLW8060S	8.0±0.3	8.0±0.3	6.0 Max.	6.3±0.3	2.00±0.3	4.00±0.3	3.8	2.2	7.5

◆ **Electrical Characteristics**

- 1) Operating temperature range (Including self-heating): $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- 2) Storage temperature range (packaging conditions): $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ and RH 70% (Max.)

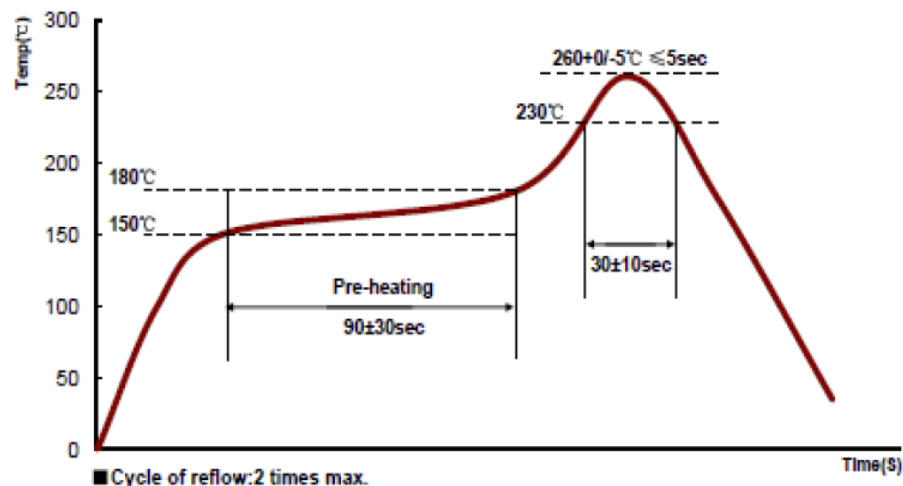
◆ **Construction and material**



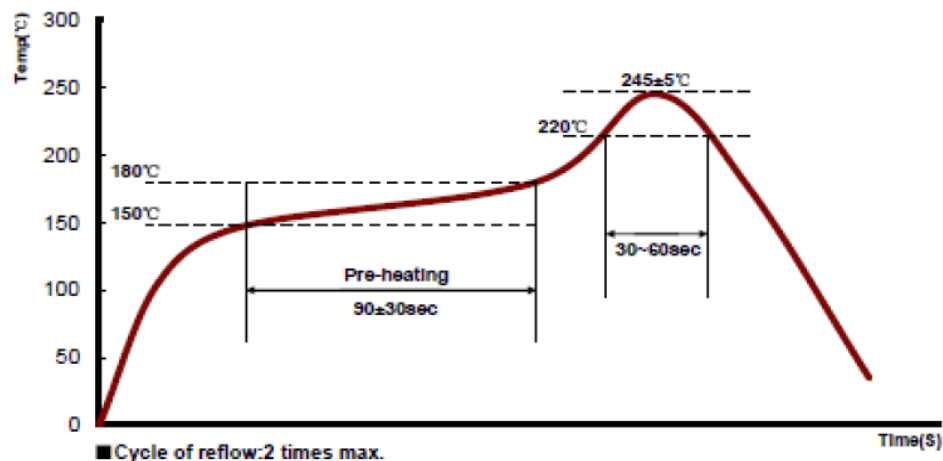
Code	Part Name	Material Name
①	Ferrite Core	Ni-Zn Ferrite
②	Wire	Polyurethane system enameled copper wire
③	Magnetic Glue	Epoxy resin and magnetic powder
④	Plating Electrodes	Ag
		Ni
		Sn
⑤	Outer Electrodes	Top surface solder coating Sn、Ag、Cu

◆ **REFLOW-PROFILE**

Limit Profile



Standard Profile (for EOC Solder paste S70G-HF)



◆ **Specification**

Part Number	Inductance @100KHz,1V (μH)	DC Resistance ±30% (Ω)	Test Freq. (kHz/v)	Saturation Current(A)
		DCR		Isat
CMLW8060S Series				
CMLW8060S2R2NST	2.2	0.022	100/0.25	8.00
CMLW8060S3R3NST	3.3	0.025	100/0.25	7.50
CMLW8060S4R7MST	4.7	0.032	100/0.25	7.00
CMLW8060S6R0MST	6	0.034	100/0.25	6.00
CMLW8060S6R8MST	6.8	0.037	100/0.25	5.90
CMLW8060S100MST	10	0.042	100/0.25	5.80
CMLW8060S150MST	15	0.071	100/0.25	4.50
CMLW8060S220MST	22	0.100	100/0.25	4.30
CMLW8060S330MST	33	0.162	100/0.25	3.00
CMLW8060S470MST	47	0.188	100/0.25	2.85
CMLW8060S680MST	68	0.248	100/0.25	2.50
CMLW8060S101MST	100	0.380	100/0.25	2.00
CMLW8060S151MST	150	0.574	100/0.25	1.65
CMLW8060S681MST	680	2.800	100/0.25	0.80
CMLW8060S821MST	820	3.400	100/0.25	0.70
CMLW8060S102MST	1000	3.870	100/0.25	0.60

◆ **Note**

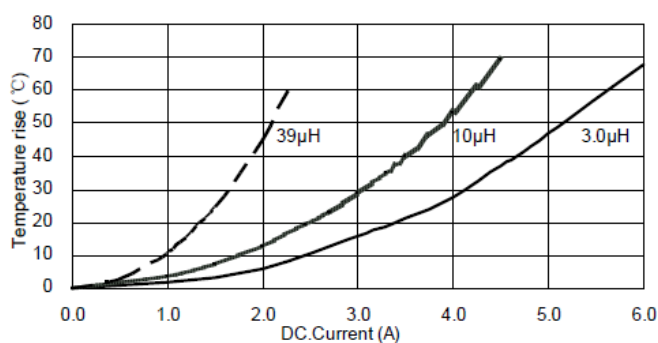
- 1: All test data is referenced to 20°C ambient;
- 2: Rated current: Isat or Irms, whichever is smaller;
- 3: Isat: DC current at which the inductance drops approximate 30% from its value without current;
- 4: Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$) from 20°C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

◆ **Standard Packing Quantity: 800 pcs/reel**

◆ **TYPICAL ELECTRICAL CHARACTERISTICS**

CMLW8060S Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics

