

## WL322522 TYPE

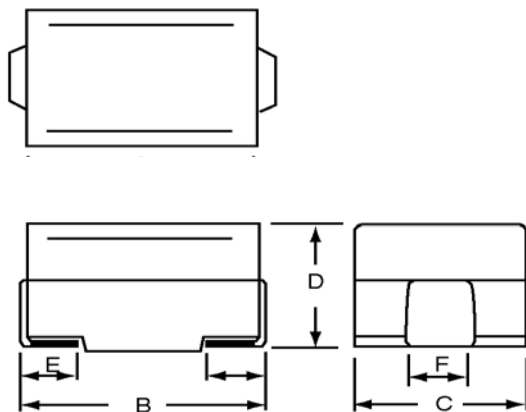
### ●FEATURE

1. Wire wound SMD inductors
2. Highly accurate dimensions and reliable
3. WLC type are low DC resistance, high current for the power line

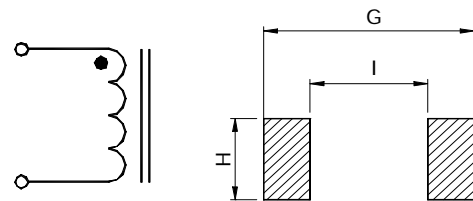
### ●Applications

1. Digital camera or small size LCD panel used
2. Hard Disk drives, and other electronic equipment

### ●Shape and Dimension



### ●Schematics and Land Patterns(mm)



### ●Specification

Dimension in m/m

TYPE	B	C	D	E	F	G	I	H
WL322522(1210)	3.20±0.30	2.50±0.20	2.20±0.20	0.50	1.90	4.00	2.00	2.20

Note1. Measurement frequency of Inductance value : at electrical characteristics

Note2. Measurement ambient temperature of L, DCR and IDC : at 25°C

Note3. IDC : This indicates the value of current when the inductances is 10% lower than its initial value at D.C. superimposition or D.C. current when at  $\Delta t=20^{\circ}\text{C}$ , which is lower. ( $T_a=20^{\circ}\text{C}$ )

Note4. Inductance tolerance: J: ±5% ; K: ±10% ; M: ±20%

Note5. Ordering Code: TYPE NAME: WL322522

Main Inductance: 100 (10uH)

Tolerance : K (±10%)

Note6. Packaging: Taping ; Quantity: 2000 Pieces/reel

P/N	L ( $\mu$ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC ( $\Omega$ )Max	IDC (mA)Max
WL322522-68N□	0.068	100	27	1000	0.36	450
WL322522-82N□	0.082	100	27	900	0.40	450
WL322522-R10□	0.10	100	28	700	0.44	450
WL322522-R12□	0.12	25.2	30	500	0.22	450
WL322522-R15□	0.15	25.2	30	450	0.25	450
WL322522-R18□	0.18	25.2	30	400	0.28	450
WL322522-R22□	0.22	25.2	30	350	0.32	450
WL322522-R27□	0.27	25.2	30	320	0.36	450
WL322522-R33□	0.33	25.2	30	300	0.40	450
WL322522-R39□	0.39	25.2	30	250	0.45	450
WL322522-R47□	0.47	25.2	30	220	0.50	450
WL322522-R56□	0.56	25.2	30	180	0.55	450
WL322522-R68□	0.68	25.2	30	160	0.60	450
WL322522-R82□	0.82	25.2	30	140	0.65	450
WL322522-1R0□	1.0	7.96	30	120	0.70	400
WL322522-1R2□	1.2	7.96	30	100	0.75	390
WL322522-1R5□	1.5	7.96	30	85	0.85	370
WL322522-1R8□	1.8	7.96	30	80	0.90	350
WL322522-2R2□	2.2	7.96	30	75	1.00	320
WL322522-2R7□	2.7	7.96	30	70	1.10	290
WL322522-3R3□	3.3	7.96	30	60	1.20	260
WL322522-3R9□	3.9	7.96	30	55	1.30	250
WL322522-4R7□	4.7	7.96	30	50	1.50	220
WL322522-5R6□	5.6	7.96	30	47	1.60	200
WL322522-6R8□	6.8	7.96	30	43	1.80	180
WL322522-8R2□	8.2	7.96	30	40	2.00	170
WL322522-100□	10	2.52	30	36	2.10	150
WL322522-120□	12	2.52	30	33	2.50	140
WL322522-150□	15	2.52	30	28	2.80	130
WL322522-180□	18	2.52	30	25	3.30	120
WL322522-220□	22	2.52	30	23	3.70	110
WL322522-270□	27	2.52	30	18	5.00	80
WL322522-330□	33	2.52	30	17	5.60	70
WL322522-390□	39	2.52	30	16	6.40	65
WL322522-470□	47	2.52	30	15	7.00	60

P/N	L ( $\mu$ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC ( $\Omega$ )Max	IDC (mA)Max
WL322522-560□	56	2.52	30	13	8.00	55
WL322522-680□	68	2.52	30	12	9.00	50
WL322522-101□	100	0.796	20	10	11	40
WL322522-121□	120	0.796	20	9	11	70
WL322522-151□	150	0.796	20	7	15	65
WL322522-181□	180	0.796	20	7	17	60
WL322522-221□	220	0.796	20	6	21	50
WL322522-271□	270	0.796	20	5	28	45
WL322522-331□	330	0.796	20	5	34	40

## GENERAL CHARACTERISTICS

### 1. Operating temperature range

-40 TO + 85°C (Includes temperature when the coil is heated)

### 2. External appearance

On visual inspection, the coil has no external defects.

### 3. Terminal strength

After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.

Terminal should not peel off. (refer to figure at right)

0.5KG MIN.(WL252018.WL322522.WL453232.WL5650V.WL

### 4. Insulating resistance.

Over 100MΩ at 100V D.C. between coil and core.

### 5. Dielectric strength

No dielectric breakdown at 100V D.C. for 1 minute between coil and core.

### 6. Temperature characteristics

Inductance coefficient  $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$  (-25~+80°C).

### 7. Humidity characteristics

Inductance deviation within  $\pm 5\%$ , after 96 hours in 90~95% relative humidity at  $40 \pm 2^{\circ}\text{C}$  and 1 hour drying under normal condition.

### 8. Vibration resistance

Inductance deviation within  $\pm 5\%$ , after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.

### 9. Shock resistance

Inductance deviation within  $\pm 5\%$ , after being dropped once with  $981\text{m/s}^2$  (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.

### 10. Resistance to Soldering Heat: 260°C, 10 seconds

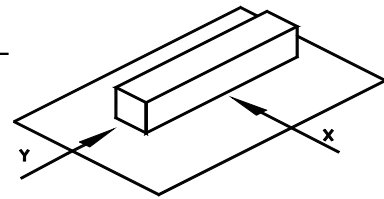
### 11. Storage environment

Storage condition: Temperature Range: 10°C ~ 35°C (Generally: 21°C ~ 31°C)

Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%)

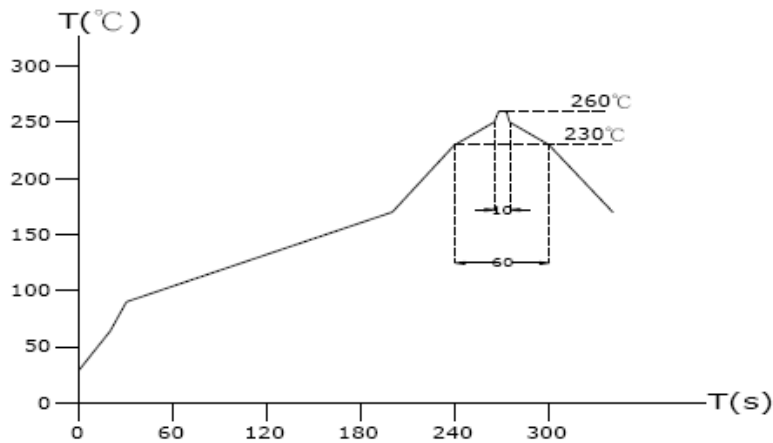
Transportation condition: Temperature Range: -35°C ~ 85°C

Humidity Range: 50% ~ 95% RH



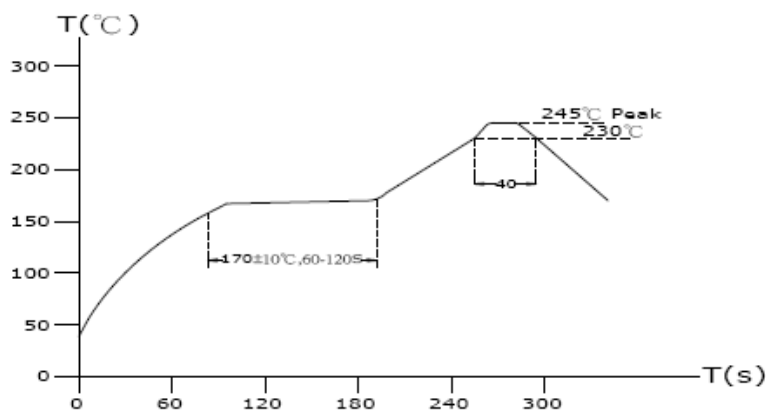
## RELIABILITY TEST

### Lead-free heat endurance test



- ※The test should be made under the conditions according to the chart, after the test it is kept for 2hours under the normal temperature and humidity. Then,no mechanical and electrical defect should be found out.
- ※The reflow test can be done twice,but the interval should be more than one hour under the normal conditions.
- ※The reflow test conditions are based on the testing instruments available in our company.

### Lead-free the recommended reflow condition



- ※The reflow condition recommended above is according to the machine used by our company. Big differences will arise as a result of the type of machine ,reflow conditions,method,etc used. Hence,before setting up your reflow conditions,please confirm with the above.