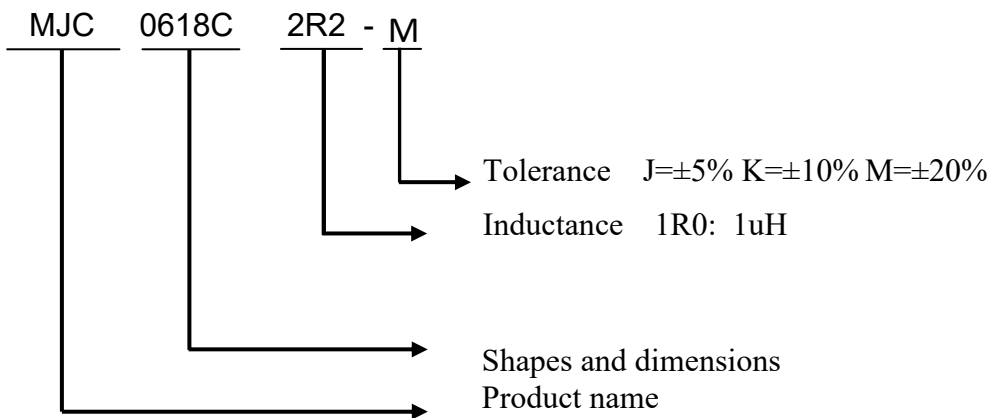


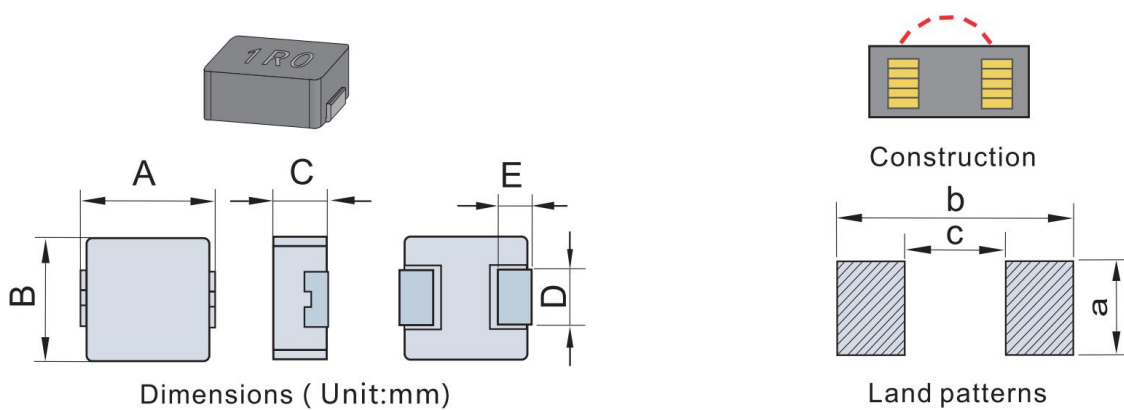
1. Scope

This specification applies wire wound power inductors **MJC-0618C Series** to be delivered to user.

2. Product Identification



3. Shapes and Dimensions



SERIES	A	B	C	D	E	a	b	c
MJC-0618C	7.0±0.5	6.6±0.2	1.6±0.3	3.0±0.3	1.6±0.3	3.5Typ	8.3Typ	3.4Typ

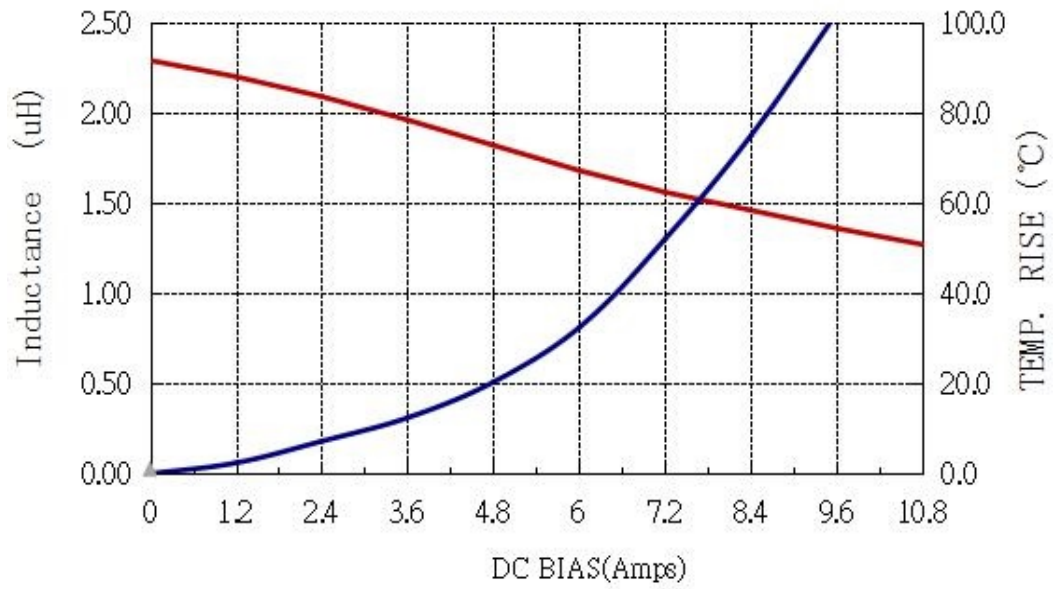
4.ELECTRICAL CHARACTERISTICS:

Part No.	Ls(μ H)	R _{DC} (Ω)		Irms(A,Max)	Isat(A,Max)
		Typ	Max		
MJC-0618C-R10-M	0.1	2.00	2.50	21.0	45.0
MJC-0618C-R15-M	0.15	2.85	3.20	20.0	31.0
MJC-0618C-R22-M	0.22	4.00	4.80	14.0	29.0
MJC-0618C-R33-M	0.33	5.20	6.80	12.0	22.0
MJC-0618C-R47-M	0.47	7.30	8.40	11.0	18.0
MJC-0618C-R68-M	0.68	10.80	12.70	9.0	17.0
MJC-0618C1R0-M	1.0	14.50	17.00	7.0	12.0
MJC-0618C-1R5-M	1.5	20.00	26.00	6.5	10.0
MJC-0618C-2R0-M	2.0	28.00	32.00	6.0	8.0
MJC-0618C-2R2-M	2.2	31.00	35.00	6.0	8.0
MJC-0618C-3R3-M	3.3	56.00	60.00	3.5	7.0
MJC-0618C-4R7-M	4.7	68.00	70.00	3.5	5.0
MJC-0618C-6R8-M	6.8	101.0	110.0	2.8	3.5
MJC-0618C-8R2-M	8.2	120.0	135.0	2.5	3.0
MJC-0618C-100-M	10	140.0	155.0	2.3	2.5
MJC-0618C-150-M	15	215.0	250.0	1.8	2.2

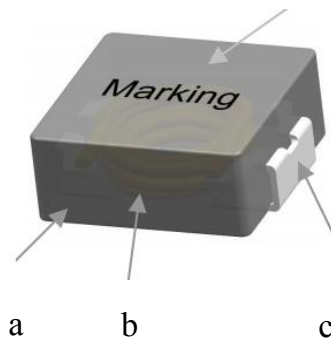
Remark >

- > All test data is referenced to 18-25°C ambient;
- > Inductance tested at 100KHz/0.1V with WK3260B LCR Meter or equivalent;
- > Isat: DC current at which the inductance drops 30% from its value without current ;
- > Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ C$) from room temperature;
- > Operating temperature rang(including coil's self temperature rise) :-55°C~+ 155°C ;
- > Storage temperature range : - 40°C~+105 °C.

5. Curve

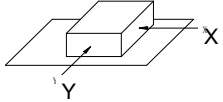


6. MATERIAL LIST



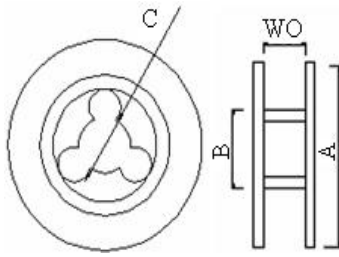
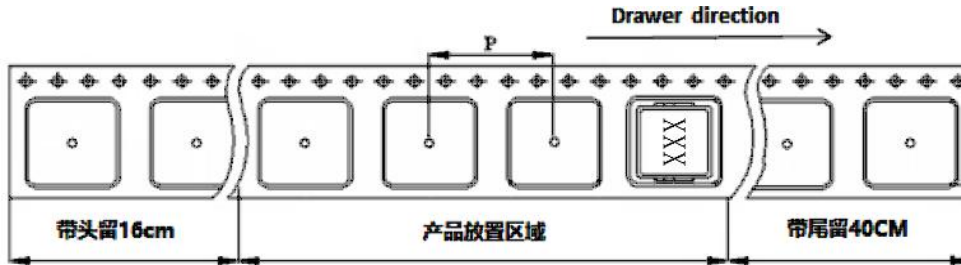
No.	ITEM	Materials
a	Core	Metal alloy
b	Wire	Enameled wire or equivalen
c	Terminal	Copper+Nickel+Tin
d	Ink	KGK-JET LTH20-Black or equivalen

7. Reliability Test

No.	ITEM	REQUEST	CONDITIONS
1	TERMINAL STRENGTH	A STATIC PULLING FORCE OF 10N IN A DIRECTION PARALLEL TO THE TERMINALS FOR 5 SECONDS	NO TERMINAL BREAKAGE OR LOOSENING 
2	RESISTANCE TO SOLDERING HEAT TEST	FIX THE SAMPLES ON A 1.6mm THICKNESS PCB, THEN DIP THE SAMPLE LEADS INTO A SOLDERING BATH OF 260±5°C UP TO THE PCB FOR 5±1 SECONDS.	NO MECHANICAL BREAKAGE. DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10.0%
3	SOLDER ABILITY TEST	IMMERSE THE TERMINAL IN FLUX FOR 5 SECONDS. THEN DIP THE TERMINAL INTO A SOLDERING BATH OF 245±5°C FOR 2±0.5 SECONDS.	OVER 90% OF THE SURFACE BEING IMMERSERD SHALL BE COVERED WITH NEW SOLDER UNIFORMITY.
4	HUMIDITY TEST	TEMPERATURE :40±2°C HUMIDITY :90%~95%RH DURATION:96±4 Hours	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10.0%
5	HIGH TEMPERATURE TEST	TEMPERATURE: 125±2°C TIME: 96±4 Hours ROOM CONDITION: 1~2 hours	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10.0%
6	LOW TEMPERATURE TEST	TEMPERATURE: -25±2°C TIME: 96 Hours ROOM CONDITION: 1~2 hours	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10.0%
7	THERMAL SHOCK TEST	FIRST -25±5°C FOR 30±2 MINUTES, LAST 125°C 30±2 MINUTES AS 1 CYCLE. TOTAL 10 CYCLES.	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10.0%
8	VIBRATION TEST	APPLY FREQUENCY 10~55Hz 1.55mm AMPLITUDE IN EACH OF PERPENDICULAR DIRECTION FOR 2 HOURS.(TOTAL6H)	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10.0%

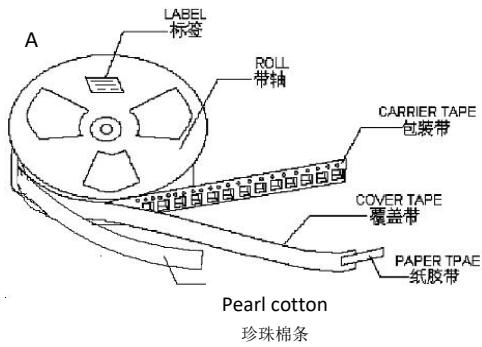
8.The packing way and quantity:

(1) Packaging

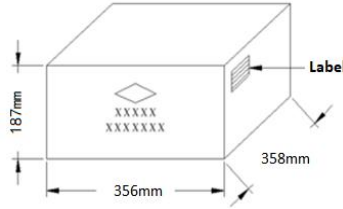
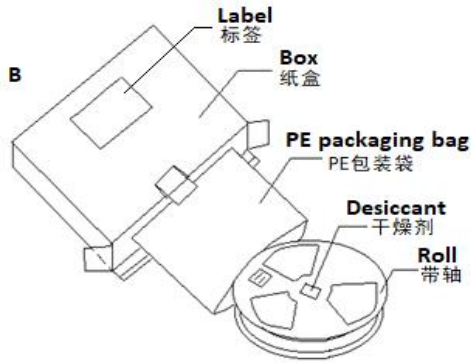


A	B	C	W0	P
330	100	13.5	16.8	12

(2) Packaging Quantity



2000 pcs/Reel



Quantity (Pcs)		
Reel	Box	Carton
2000	6000	12000
1Reel	3Reel/Box	2Box/Carton

9、Reflow Soldering

