

APPROVAL SPECIFICATION

PRODUCT NAME:							
KOOMAG PN:KMTC0520 Series							
CUSTOMER PN:							
NSE							
☐ Approval ☐ Approval with the following changes ☐ Reject							
SIGNATURE	DATE						
KOOMAG ENGINEERING SIGNATURE							
CHECKED BY	ISSUED BY						
DATE	DATE						
	DNSE lowing changes SIGNATURE CHECKED BY						

深圳坤磁科技有限公司 SHENZHEN KOOMAG TECHNOLOGY CO., LTD

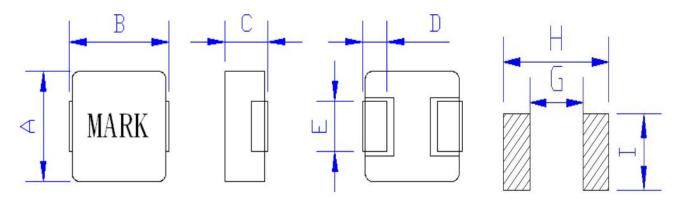
Address: B503, Building B, HuaChuangDa Headquarters Building, Bao'an 49 District, Shenzhen



General Description

This specification applies to the KMTC0520 Series of wire wound SMD power inductor.

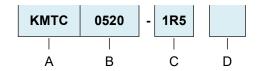
Appearance & Shape



Dimension (Unit:mm)

NO	Series	Α	В	С	D	Е	G	Н	I
1	KMTC0520	5.2 ±0.3	5.6±0.5	2.0 Max	1.3±0.5	2.2±0.3	1.9 Ref.	6.2 Ref.	2.5 Ref.

Part Number



A:Series name (产品品名)

B:Dimensions (产品尺寸)

C:Inductance value (电感值) 1R5: 1.5µH 220: 22µH

D:Tolerance (误差值) K: ±10%; M: ±20%; N: ±30%



Please refer to Item 5.

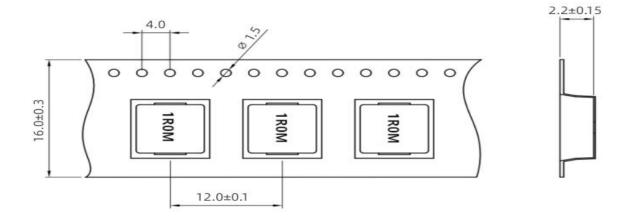
- 1). Operating temperature range (individual chip without packing): -40° C ~ +125 $^{\circ}$ C .
- 2). Storage temperature range (packaging conditions): -40° C ~ $+85^{\circ}$ C and RH 70% (Max.).
- 3). Rating DC current: Temperature rise(\triangle T) is 40°C approximately at Irms.
- 4). Saturation DC current: Inductance drop approximately 30% of L0 at Isat.

	Part Number	Inductance	DC Resistance		Saturatiom Curren	Temp.Rise current		
NO		100KHz/1.0V	100KHz/1.0V Max.		Тур.	Тур.	Marking	
	Units	(uH)	mΩ	mΩ	A	Α		
1	KMTC0520-R22M	0.22±20%	6.5	4.4	15.0	11.0	R22	
2	KMTC0520-R33M	0.33±20%	10	7.2	13.0	10.0	R33	
3	KMTC0520-R47M	0.47±20%	15	10	12.0	7.0	R47	
4	KMTC0520-R68M	0.68±20%	21	14	11.0	6.0	R68	
5	KMTC0520-1R0M	1.00±20%	25	17	10.0	5.0	1R0	
6	KMTC0520-1R5M	1.50±20%	40	26	8.0	4.5	1R5	
7	KMTC0520-2R2M	2.20±20%	46	38	7.0	4.0	2R2	
8	KMTC0520-3R3M	3.30±20%	90	61	5.5	3.5	3R3	
9	KMTC0520-4R7M	4.70±20%	100	84	5.0	2.8	4R7	
10	KMTC0520-5R6M	5.60±20%	115	93	4.5	2.5	5R6	
11	KMTC0520-6R8M	6.80±20%	160	124	4.0	2.2	6R8	
12	KMTC0520-100M	10.00±20%	225	190	3.0	1.8	100	
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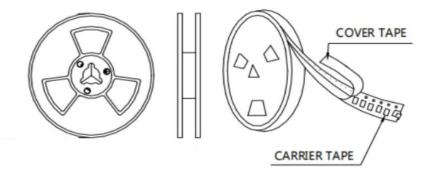
[※]Design as Customer's Requested Specifications. (可按顾客的特殊需求设计)



1.Tape Dimensions(Unit:mm)



2.Reel



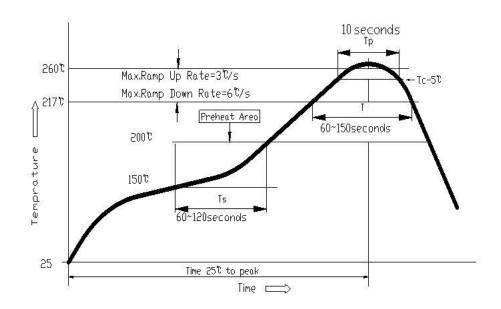
Part No.	Tape	MPQ		
KMTC0520	Embossed Tape	3000PCS		





Applicable soldering process to the products is refl.

- 1. Soldering Materials
- (1)Solder:Sn-3.0Ag-0.5Cu
- (2)Flux:Use rosin-based flux,but not strongly acidic flux (with xhlorine exceeding
- 0.2wt%).Do not use water-soluble flux.
- 2.Reflow Soldering Profile



3. Solderin glron

Reworking with electric solding iron must preheating at 150°C for 1 minute is required, and do not directly touch the core with the tip of the soldering iron. The reworking soldering conditions are as follows.

- ①Temperature of soldering iron tip:350 $^{\circ}$ C;
- ② Soldering iron power output:≤30W;
- ③ Diameter of soldering iron end:≤1.0mm;
- 4 Soldering time: < 3s.

