

APPROVAL SPECIFICATION

PRODUCT NAME:							
KOOMAG PN:KMTC1040 Series							
CUSTOMER PN:							
CUSTOMER RESPO	DNSE						
☐ Approval ☐ Approval with the following changes ☐ Reject							
APPROVED BY	SIGNATURE	DATE					
KOOMAG ENGINEERING SIGNATURE							
APPROVED BY	CHECKED BY	ISSUED BY					
DATE	DATE	DATE					

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

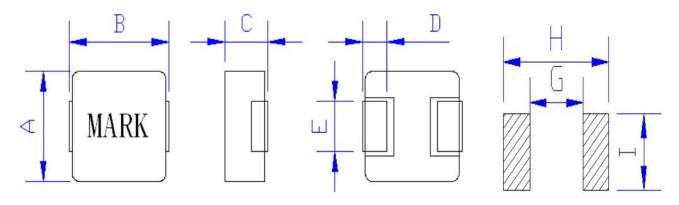
Address: B503, Building B, HuaChuangDa Headquarters Building, Bao'an 49 District, Shenzhen



General Description

This specification applies to the KMTC1040 Series of wire wound SMD power inductor.

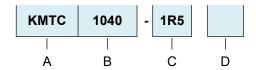
Appearance & Shape



Dimension (Unit:mm)

NO	Series	Α	В	С	D	E	G	Н	I
1	KMTC1040	10.2 ±0.3	11±0.5	4.0 Max	2.0±0.5	3.0±0.3	6.0 Ref.	11.8 Ref.	3.5 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 $^{\circ}$ 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.

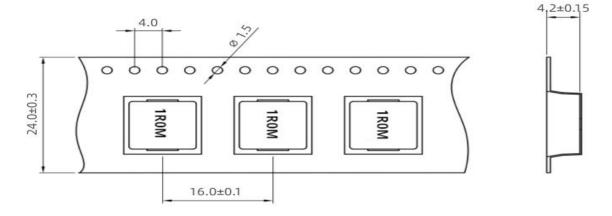
	Part Number	Inductance	DC Resistance		Saturatiom Curren	Temp.Rise current		
NO		100KHz/1.0V	Мах. Тур.		Тур.	Тур.	Marking	
	Units	(uH)	mΩ	mΩ	А	Α		
1	KMTC1040-R22M	0.22±20%	0.8	0.55	50.0	25.0	R22	
2	KMTC1040-R33M	0.33±20%	1.5	1.0	38.0	22.0	R33	
3	KMTC1040-R47M	0.47±20%	1.8	1.15	35.0	20.0	R47	
4	KMTC1040-R56M	0.56±20%	2.2	1.7	34.0	17.0	R56	
5	KMTC1040-R68M	0.68±20%	2.8	1.95	32.0	16.0	R68	
6	KMTC1040-1R0M	1.00±20%	3.5	2.4	28.0	15.0	1R0	
7	KMTC1040-1R5M	1.50±20%	6.0	4.8	20.0	12.0	1R5	
8	KMTC1040-2R2M	2.20±20%	9.0	6.5	18.0	11.0	2R2	
9	KMTC1040-3R3M	3.30±20%	12	9.0	17.0	10.0	3R3	
10	KMTC1040-4R7M	4.70±20%	20	14	13.0	8.0	4R7	
11	KMTC1040-6R8M	6.80±20%	25	18	11.0	6.0	6R8	
12	KMTC1040-100M	10.00±20%	45	31	9.0	5.0	100	
13	KMTC1040-150M	15.00±20%	75	50	8.0	4.0	150	
14	KMTC1040-220M	22.00±20%	90	63.5	7.0	3.5	220	
15	KMTC1040-330M	33.00±20%	120	89	6.0	3.0	330	
16	KMTC1040-470M	47.00±20%	170	130	5.0	2.5	470	
17	KMTC1040-680M	68.00±20%	250	203	4.0	2.0	680	
18								
19								
20								

[※]Design as Customer's Requested Specifications. (可按顾客的特殊需求设计)

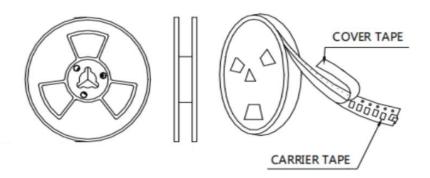


Packaging(unit:mm)

1.Tape Dimensions(Unit:mm)



2.Reel



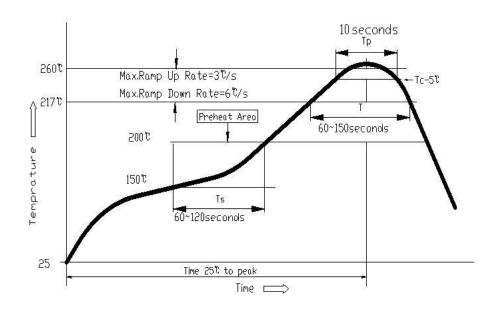
Part No.	Таре	MPQ		
KMTC1040	Embossed Tape	1000PCS		



Soldering Condition Sproduct

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.

