





APPROVAL SPECIFICATION

PRODUCT NAME:								
KOOMAG PN:KMT0	C1050 Series							
CUSTOMER PN:								
CUSTOMER RESPO	NEE							
CUSTOWER RESPO	JN3E							
☐ Approval ☐ Approval with the following changes ☐ Reject								
APPROVED BY	SIGNATURE	DATE						
KOOMAG ENGINEE	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

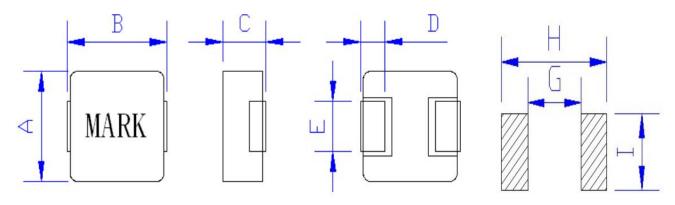
Address: B503, Building B, HuaChuangDa Headquarters Building, Bao'an 49 District, Shenzhen



General Description

This specification applies to the KMTC1050 Series of wire wound SMD power inductor.

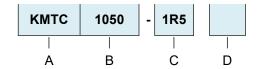
Appearance & Shape



Dimension (Unit:mm)

NO	Series	Α	В	С	D	E	G	Н	I
1	KMTC1050	10.2 ±0.3	11±0.5	5.0 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%



Electrical Characteristics

Please refer to Item 5.

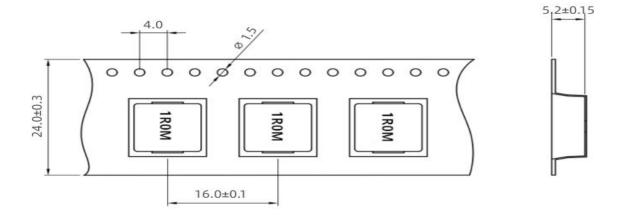
- 1). Operating temperature range (individual chip without packing): -40° C ~ +125 $^{\circ}$ C .
- 2). Storage temperature range (packaging conditions): -40° C ~ $+85^{\circ}$ C and RH 70% (Max.).
- 3). Rating DC current: Temperature rise(\triangle T) is 40°C approximately at Irms.
- 4). Saturation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

	Part Number	Inductance	DC Resistance		Saturatiom Curren	Temp.Rise current		
NO		100KHz/1.0V	Max.	Тур.	Тур.	Тур.	Marking	
	Units	(uH)	mΩ	mΩ	Α	Α		
1	KMTC1050-R72M	0.72±20%	2.8	1.95	32.0	25.0	R72	
2	KMTC1050-1R0M	1.00±20%	3.2	2.1	25.0	14.0	1R0	
3	KMTC1050-1R5M	1.50±20%	5.8	4.3	20.0	12.0	1R5	
4	KMTC1050-2R2M	2.20±20%	7.5	5.0	20.0	12.0	2R2	
5	KMTC1050-4R7M	4.70±20%	18	12	15.0	8.0	4R7	
6	KMTC1050-6R8M	6.80±20%	27	19.4	14.0	7.0	6R8	
7	KMTC1050-100M	10.00±20%	44	25.5	12.0	6.0	100	
8	KMTC1050-150M	15.00±20%	54	36	10.0	5.0	150	
9	KMTC1050-220M	22.00±20%	85	60	8.0	4.5	220	
10	KMTC1050-330M	33.00±20%	90	76	6.0	4.0	330	
11	KMTC1050-470M	47.00±20%	145	110	5.0	3.5	470	
12	KMTC1050-680M	68.00±20%	195	155	4.5	2.5	680	
13	KMTC1050-101M	100.00±20%	285	240	3.5	2.0	101	
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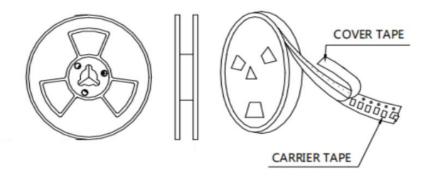
[※]Design as Customer's Requested Specifications. (可按顾客的特殊需求设计)



1.Tape Dimensions(Unit:mm)



2.Reel



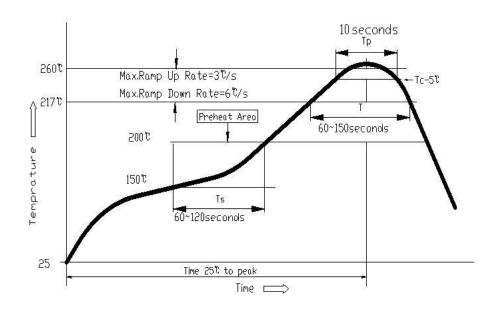
Part No.	Таре	MPQ		
KMTC1050	Embossed Tape	800PCS		



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°C;
- ② Soldering iron power output:≤30W;
- ③ Diameter of soldering iron end:≤1.0mm;
- 4 Soldering time: < 3s.

