





# APPROVAL SPECIFICATION

PRODUCT NAME:	PRODUCT NAME:					
KOOMAG PN: KMT0	C0650 Series					
CUSTOMER PN:	CUSTOMED DN:					
OGG TOMER THE						
CUSTOMER RESPO	NSE					
Approval						
☐ Approval with the fol	lowing changes					
Reject						
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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

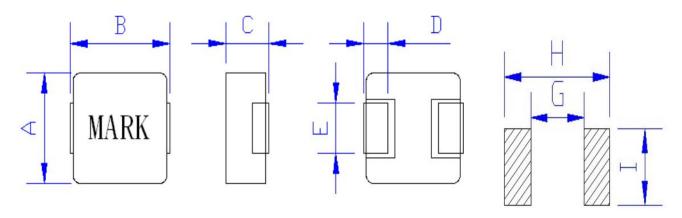
Address: B503, Building B, HuaChuangDa Headquarters Building, Bao'an 49 District, Shenzhen



### **General Description**

This specification applies to the KMTC0650 Series of wire wound SMD power inductor.

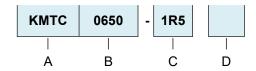
# Appearance & Shape



# Dimension (Unit:mm)

NO	Series	Α	В	С	D	E	G	Н	I
1	KMTC0650	6.6 ±0.3	7.1±0.5	5.0 Max	1.6±0.5	3.0±0.3	2.9 Ref.	7.8 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):  $-40^{\circ}$ 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.

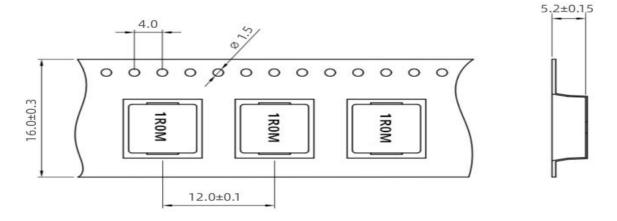
	Part Number	Inductance	DC Resistance		Saturatiom Curren	Temp.Rise current		
NO		100KHz/1.0V	Мах. Тур.		Тур.	Тур.	Marking	
	Units	(uH)	mΩ	mΩ	А	Α		
1	KMTC0650-1R0M	1.00±20%	8.5	5.5	14.0	9.0	1R0	
2	KMTC0650-1R5M	1.50±20%	10	7.2	14.0	9.0	1R5	
3	KMTC0650-2R2M	2.20±20%	14	10	10.0	8.0	2R2	
4	KMTC0650-3R3M	3.30±20%	18	13.8	10.0	7.0	3R3	
5	KMTC0650-4R7M	4.70±20%	23	18.5	9.0	6.0	4R7	
6	KMTC0650-6R8M	6.80±20%	33	27	8.0	5.0	6R8	
7	KMTC0650-100M	10.00±20%	60	45	7.0	4.0	100	
8	KMTC0650-150M	15.00±20%	90	60	5.0	3.5	150	
9	KMTC0650-220M	22.00±20%	130	115	4.0	3.0	220	
10	KMTC0650-330M	33.00±20%	175	154	3.5	2.0	330	
11	KMTC0650-470M	47.00±20%	255	230	3.0	1.5	470	
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<sup>※</sup>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



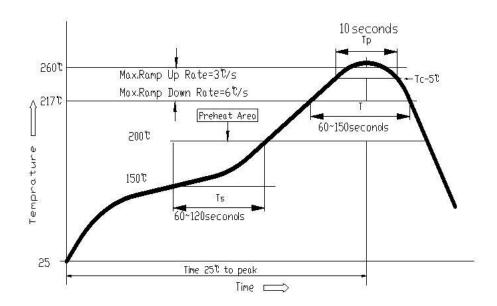
Part No.	Tape	MPQ	
KMTC0650	Embossed Tape	1000PCS	



## 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.

