





APPROVAL SPECIFICATION

PRODUCT NAME:						
KOOMAG PN:KMTC0830 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

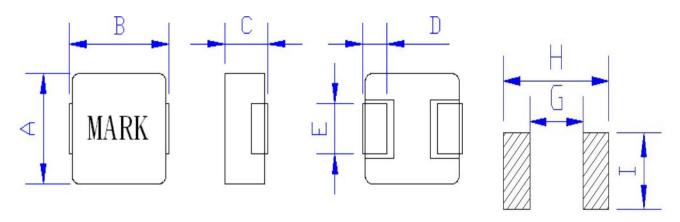
Address: B503, Building B, HuaChuangDa Headquarters Building, Bao'an 49 District, Shenzhen



General Description

This specification applies to the KMTC0830 Series of wire wound SMD power inductor.

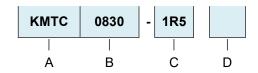
Appearance & Shape



Dimension (Unit:mm)

NO	Series	Α	В	С	D	Е	G	Н	I
1	KMTC0830	8.0 ±0.3	8.7±0.5	3.0 Max	1.8±0.5	3.0±0.3	4.5 Ref.	9.0 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.

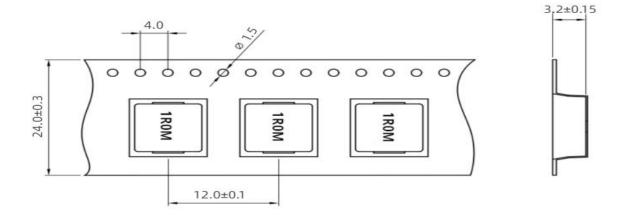
	Part Number	Inductance	DC Resistance		Saturatiom Curren	Temp.Rise current	Marking	
NO		100KHz/1.0V	Мах. Тур.		Тур.	Тур.		
	Units	(uH)	mΩ	mΩ	А	Α		
1	KMTC0830-R47M	0.47±20%	5.0	3.1	30.0	21.0	R47	
2	KMTC0830-R68M	0.68±20%	4.0	3.6	20.0	16.0	R68	
3	KMTC0830-1R0M	1.00±20%	6.0	4.6	20.0	13.0	1R0	
4	KMTC0830-1R5M	1.50±20%	9.0	6.3	16.0	10.0	1R5	
5	KMTC0830-2R2M	2.20±20%	15	10	14.0	8.0	2R2	
6	KMTC0830-4R7M	4.70±20%	32	24	10.0	6.0	4R7	
7	KMTC0830-8R2M	8.20±20%	60	50	7.0	4.0	8R2	
8	KMTC0830-100M	10.00±20%	60	54	6.5	4.0	100	
9	KMTC0830-150M	15.00±20%	106	95	5.0	4.0	150	
10	KMTC0830-220M	22.00±20%	120	100	4.5	3.0	220	
11	KMTC0830-470M	47.00±20%	290	260	2.5	2.0	470	
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[※]Design as Customer's Requested Specifications. (可按顾客的特殊需求设计)

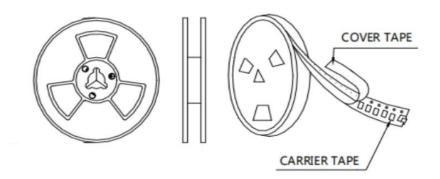


Packaging(unit:mm)

1.Tape Dimensions(Unit:mm)



2.Reel



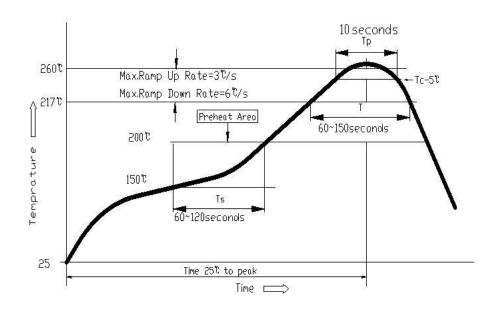
Part No.	Таре	MPQ		
KMTC0830	Embossed Tape	1000PCS		



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.

