

APPROVAL SPECIFICATION

PRODUCT NAME:

KOOMAG PN:KMTC252012 Series

CUSTOMER PN:

CUSTOMER RESPONSE

<input type="checkbox"/> Approval <input type="checkbox"/> Approval with the following changes <input type="checkbox"/> 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

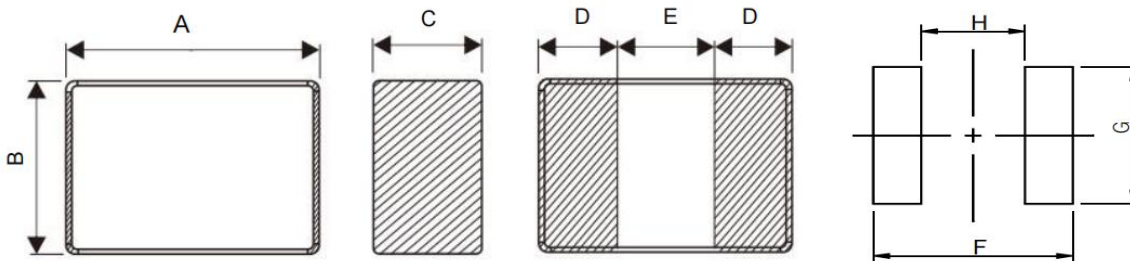
SHENZHEN KOOMAG TECHNOLOGY CO., LTD

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

General Description

This specification applies to the KMTC252012 Series of wire wound SMD power inductor.

Appearance & Shape



Dimension (Unit:mm)

NO	Series	A	B	C	D	E	F	G	H
1	KMTC252012	2.5±0.3	2.0±0.3	1.2 Max	0.7typ	1.1typ	3.0typ	2.4typ	0.9typ

Part Number

KMTC	252012	S	-	1R5	
A	B	C		D	E

A:Series name (产品品名)

B:Dimensions (产品尺寸)

C:Material code (物料代码)

D:Inductance value (电感值) 1R5: 1.5μH 221: 220μH

E:Tolerance (误差值) M: ±20%; N: ±30%

Electrical Characteristics

Please refer to Item 5.

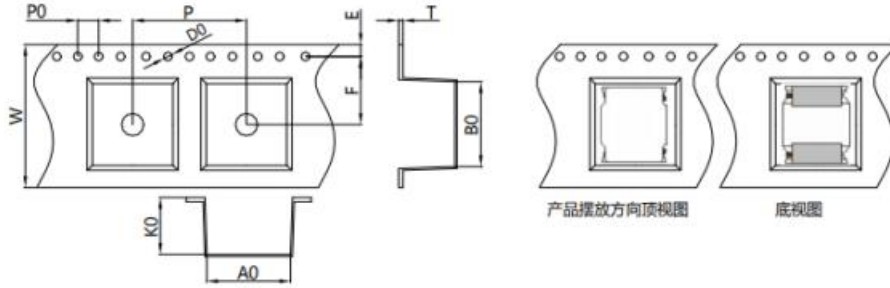
- 1). Operating temperature range (individual chip without packing): $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$.
- 2). Storage temperature range (packaging conditions): $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ and RH 70% (Max.).
- 3). Rating DC current: Temperature rise(ΔT) is 40°C approximately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

NO	Part Number	Inductance	DC Resistance		Isat(A)		Irms(A)		Marking
		100KHz/1.0V	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	Units	(μH)	Ω	Ω	A	A	A	A	
1	KMTC252012S-R22M	0.22±20%	0.012	0.008	7.80	8.50	7.00	7.80	N/A
2	KMTC252012S-R33M	0.33±20%	0.023	0.017	6.50	7.00	6.00	6.50	N/A
3	KMTC252012S-R47M	0.47±20%	0.025	0.021	5.80	6.50	5.50	6.00	N/A
4	KMTC252012S-R68M	0.68±20%	0.035	0.028	5.20	6.00	5.00	5.50	N/A
5	KMTC252012S-1R0M	1.0±20%	0.048	0.040	4.50	5.50	4.00	4.50	N/A
6	KMTC252012S-1R5M	1.5±20%	0.075	0.062	3.80	4.30	3.20	4.00	N/A
7	KMTC252012S-2R2M	2.2±20%	0.096	0.080	3.20	3.80	2.80	3.80	N/A
8	KMTC252012S-3R3M	3.3±20%	0.148	0.122	2.50	3.00	2.00	2.50	N/A
9	KMTC252012S-4R7M	4.7±20%	0.230	0.188	2.00	2.50	1.60	2.00	N/A
10									
11									
12									
13									
14									
15									
16									
17									
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)

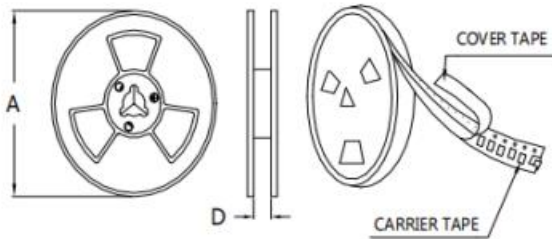


Size	Item	W	A0	B0	K0	P	T	E	F	D0	P0
252012	(mm)	8.00±0.3	2.5±0.15	2.95±0.15	1.35±0.1	4.0±0.1	0.18±0.1	1.75±0.1	3.5±0.1	1.5±0.1	4.0±0.1

2.包装尺寸:

13" 盘

7" 盘



	13" 盘	7" 盘
A	Φ330±2.0	Φ178±2.0
D	8.5	

Part No.	Tape	MPQ
252012	Embossed Tape	3000PCS

Soldering Condition Sproduct

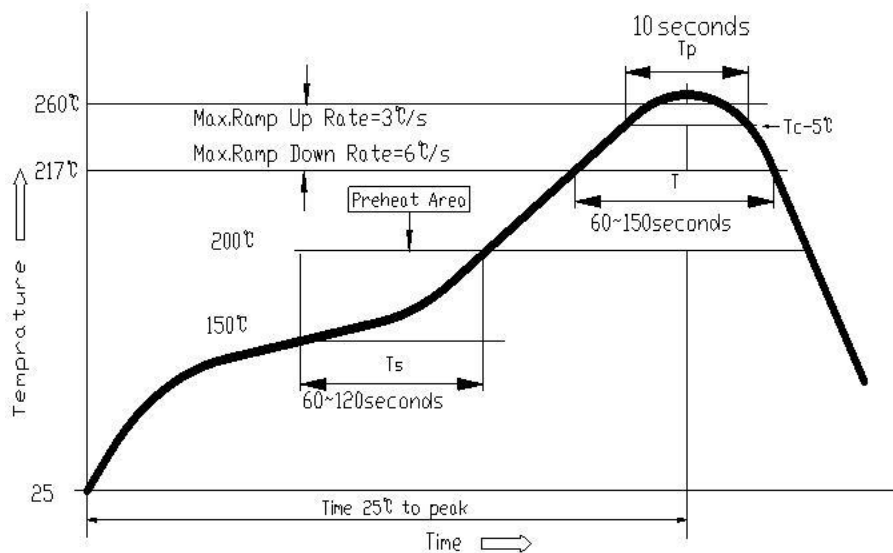
Applicable soldering process to the products is refl.

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 soldering 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;
- ④Soldering time:< 3s.

