



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

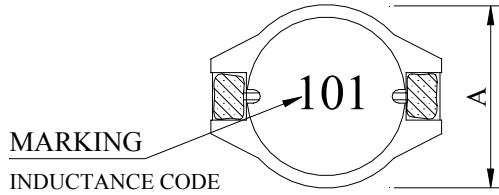
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



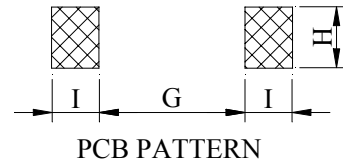
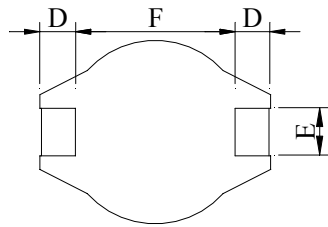
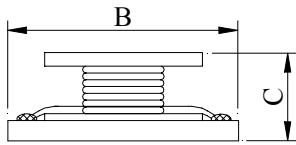
# PRODUCT SPECIFICATION

Product Name	5022 SMD POWER INDUCTORS - OPEN TYPE	Page	1
TAMURA Part No.	TO5022-XXX	Rev. No.	0

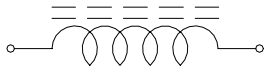
## 1. CONFIGURATION & DIMENSIONS :



A	: 15.00±0.3	m/m
B	: 18.40±0.3	m/m
C	: 7.00±0.5	m/m
D	: 2.40±0.2	m/m
E	: 2.20±0.2	m/m
F	: 13.30±0.3	m/m
G	: 12.70 REF.	m/m
H	: 2.80 REF.	m/m
I	: 3.00 REF.	m/m



## 2. SCHEMATIC DIAGRAM :



## 3. GENERAL SPECIFICATION :

- a) TEMP. RISE : 40°C TYP.
- b) RATED CURRENT : BASE ON TEMP. RISE &  $\Delta$  LOA=10% TYP.
- c) STORAGE TEMP. : -40°C ~ +125°C
- d) OPERATING TEMP. : -25°C ~ +105°C
- e) RESISTANCE TO SOLDER HEAT : 260°C FOR 10 SECS.

# PRODUCT SPECIFICATION

Product Name	5022 SMD POWER INDUCTORS - OPEN TYPE	Page	2
TAMURA Part No.	TO5022-XXX	Rev. No.	0

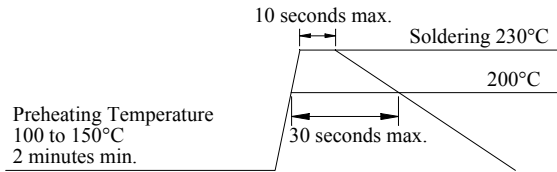
## 4. ELECTRICAL CHARACTERISTICS :

TAMURA Part No.	INDUCTANCE ( $\mu$ H)	TEST FREQ. (HZ)	SRF (MHZ) TYP.	RDC (mOhm) MAX	IDC (A)
		L			
TO5022-1R0M	1.00 $\pm$ 20%	100K	80.0	9	8.60
TO5022-2R2M	2.20 $\pm$ 20%	100K	80.0	14	7.10
TO5022-3R3M	3.30 $\pm$ 20%	100K	60.0	15	6.20
TO5022-5R6M	5.60 $\pm$ 20%	100K	40.0	20	5.30
TO5022-100M	10.00 $\pm$ 20%	100K	30.0	31	4.30
TO5022-150M	15.00 $\pm$ 20%	100K	22.0	36	4.00
TO5022-220M	22.00 $\pm$ 20%	100K	20.0	47	3.50
TO5022-330M	33.00 $\pm$ 20%	100K	15.0	66	3.00
TO5022-470M	47.00 $\pm$ 20%	100K	9.0	89	2.60
TO5022-680M	68.00 $\pm$ 20%	100K	8.0	130	2.30
TO5022-101M	100.00 $\pm$ 20%	100K	7.0	190	1.80

# PRODUCT SPECIFICATION

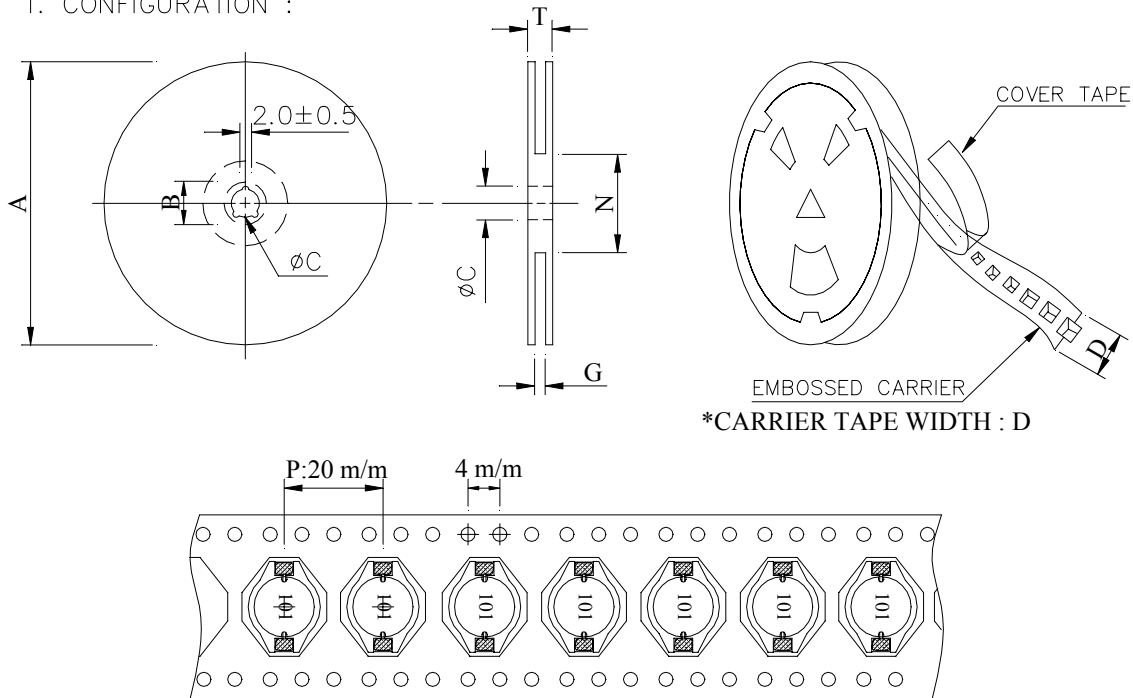
Product Name	5022 SMD POWER INDUCTORS - OPEN TYPE	Page	3
MURA Part No.	TO5022-XXX	Rev. No.	0

### RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS



## PACKAGING INFORMATION :

### 1. CONFIGURATION :



### 2. DIMENSIONS : (m/m)

STYLE	A	B	C	D	G	N	T
13 - 32	330	21±0.8	13±0.5	32	34 MAX	100 MIN	38.4

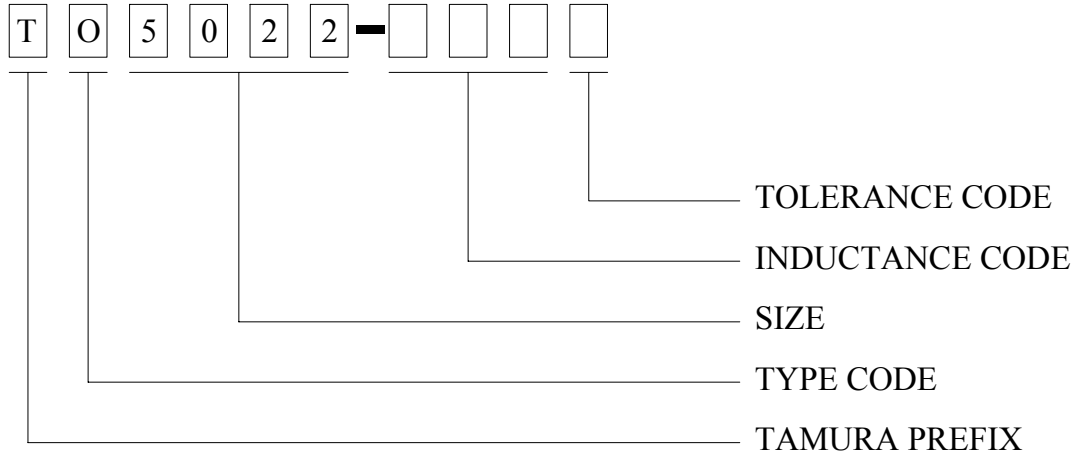
### 3. Q'TY & G.W. PER PACKAGE :

SERIES	INNER : REEL			OUTER : CARTON		
	Q'TY (PCS)	G.W. (gw)	STYLE	Q'TY (PCS)	G.W. (kg)	SIZE (cm)
TO5022	250	1250	13 - 32	1000	6.1	40 x 20 x 26

# PRODUCT SPECIFICATION

Product Name	5022 SMD POWER INDUCTORS - OPEN TYPE	Page	4
TAMURA Part No.	TO5022-XXX	Rev. No.	0

## 6. Part No. FORMAT :





# PRODUCT SPECIFICATION

Product Name	5022 SMD POWER INDUCTORS - OPEN TYPE	Page	5
TAMURA Part No.	TO5022-XXX	Rev. No.	0

## 7. RELIABILITY TEST :

TEST ITEM	SPECIFICATION	TEST CONDITION
SOLDERABILITY	MORE THAN 90% OF THE TERMINAL ELECTRODE SHALL BE COVERED WITH FRESH SOLDER.	PREHEAT : 125±25°C FOR 60 SECONDS SOLDER : H63A ( EUTECTIC SOLDER ) SOLDER TEMP. : 230±5°C FLUX : ROSIN DIP TIME : 4±1 SECONDS
THERMAL SHOCK TEST  ( TEMP. CYCLE )	INDUCTANCE SHALL NOT CHANGE MORE THAN ±20%	ROOM TEMP. —————> <u>-25±2°C</u> 15 MINUTES                      30 MINUTES  ROOM TEMP. —————> <u>85±2°C</u> 15 MINUTES                      30 MINUTES  TOTAL : 50 CYCLES
HUMIDITY RESISTANCE TEST		TEMPERATURE : 40±2°C HUMIDITY : 90 ~ 95% APPLIED CURRENT : PER SPEC. TIME : 500 HOURS
HIGH TEMP. RESISTANCE TEST		TEMPERATURE : 85±2°C APPLIED CURRENT : PER SPEC. TIME : 500 HOURS