

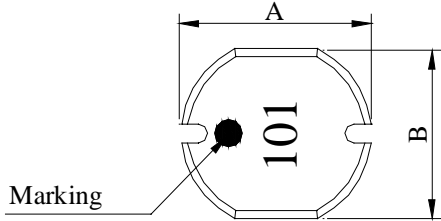
# SPECIFICATION FOR APPROVAL

REF :

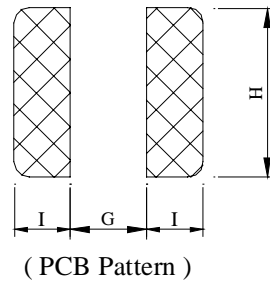
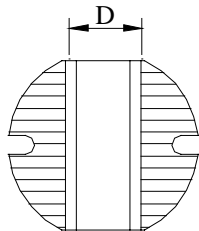
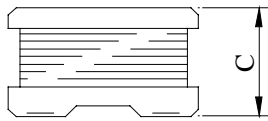
PAGE: 1

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SR0502□□□□L□
---------------	--------------------	---------------------------------	--------------

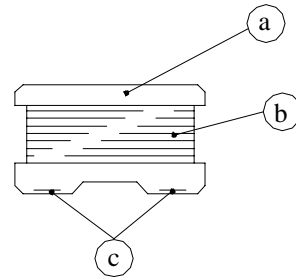
**CONFIGURATION & DIMENSIONS :**



- A : 5.0±0.30 m/m
- B : 4.5±0.30 m/m
- C : 2.0±0.15 m/m
- D : 2.0 ref. m/m
- G : 1.9 ref. m/m
- H : 5.0 ref. m/m
- I : 1.8 ref. m/m



**SCHEMATIC DIAGRAM :**



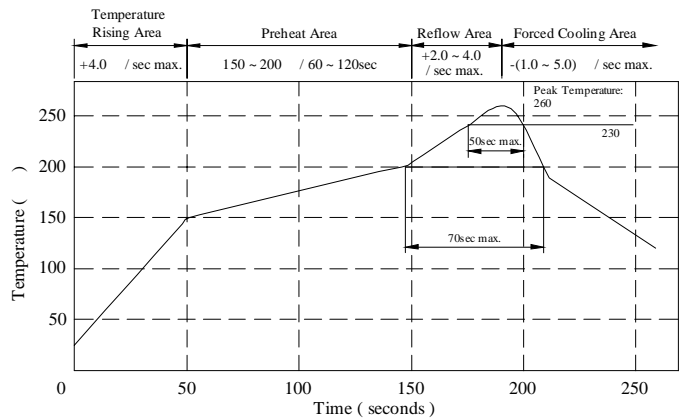
**MATERIALS :**

- a . Core : Ferrite DR core
- b . Wire : Enamelled copper wire (class F)
- c . Terminal : Ag/Ni/Sn
- d . Remark : Lead content 200ppm max.  
include ferrite

Peak Temp : 260 max.  
Max time above 230 : 50sec max.  
Max time above 200 : 70sec max.

**GENERAL SPECIFICATION :**

- a . Temp. rise : 20 max.
- b . Rated current : Base on temp. rise  
& L / LOA=10% typ.
- c . Storage temp. : -40 ----+125
- d . Operating temp. : -40 ----+105
- e . Resistance to solder heat : 260 .10 secs.



AE-001A

# SPECIFICATION FOR APPROVAL

REF :

PAGE: 2

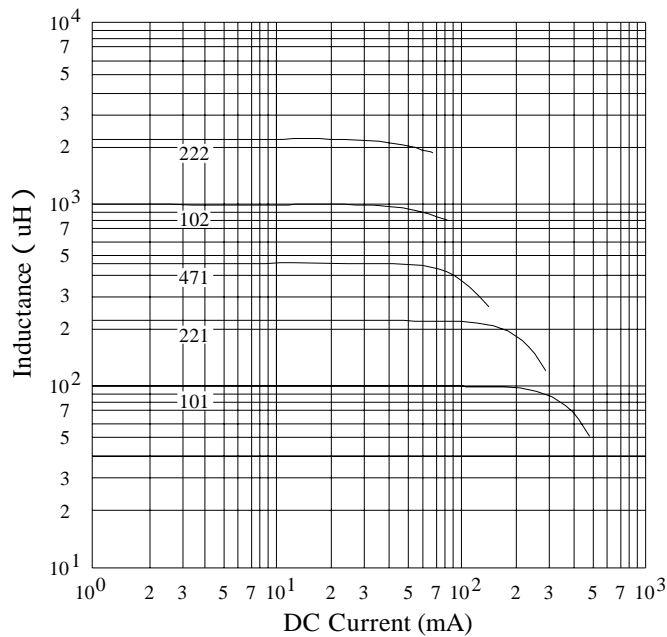
PROD. NAME	<b>SMD POWER INDUCTOR</b>	ABC'S DWG NO.	SR0502□□□□L□
		ABC'S ITEM NO.	

**. ELECTRICAL CHARACTERISTICS :**

DWG No.	Inductance ( $\mu$ H)	Q ref.	Test Freq. ( Hz )		RDC ( $\Omega$ ) max.	I <sub>rms</sub> (mA)max. T=20	I <sub>sat</sub> (mA)typ. L/L0A=10%
			L	Q			
SR0502101ML□	100.0±20%	20	100K/0.1V	796K	1.5	270	265
SR0502121ML□	120.0±20%	27	100K/0.1V	796K	1.7	252	245
SR0502151ML□	150.0±20%	28	100K/0.1V	796K	2.2	237	232
SR0502181ML□	180.0±20%	25	100K/0.1V	796K	2.5	220	215
SR0502221ML□	220.0±20%	32	100K/0.1V	796K	3.2	204	200
SR0502271ML□	270.0±20%	30	100K/0.1V	796K	3.9	190	182
SR0502331ML□	330.0±20%	40	100K/0.1V	796K	5.0	174	165
SR0502391ML□	390.0±20%	40	100K/0.1V	796K	5.4	156	148
SR0502471ML□	470.0±20%	32	100K/0.1V	796K	6.5	140	130
SR0502561ML□	560.0±20%	45	100K/0.1V	796K	8.8	125	120
SR0502681ML□	680.0±20%	40	100K/0.1V	796K	10.5	110	105
SR0502821ML□	820.0±20%	35	100K/0.1V	796K	12.0	97	95
SR0502102ML□	1000.0±20%	42	100K/0.1V	252K	16.0	85	85
SR0502122ML□	1200.0±20%	44	100K/0.1V	252K	18.5	76	80
SR0502152ML□	1500.0±20%	40	100K/0.1V	252K	22.0	70	72
SR0502182ML□	1800.0±20%	40	100K/0.1V	252K	28.5	65	68
SR0502222ML□	2200.0±20%	40	100K/0.1V	252K	34.5	60	62
SR0502272ML□	2700.0±20%	40	100K/0.1V	252K	40.0	53	55

1). □ : Packaging information... **A** : Bulk   **B** : Taping Reel

@ Inductance VS. DC Current curve



AE-001A



# SPECIFICATION FOR APPROVAL

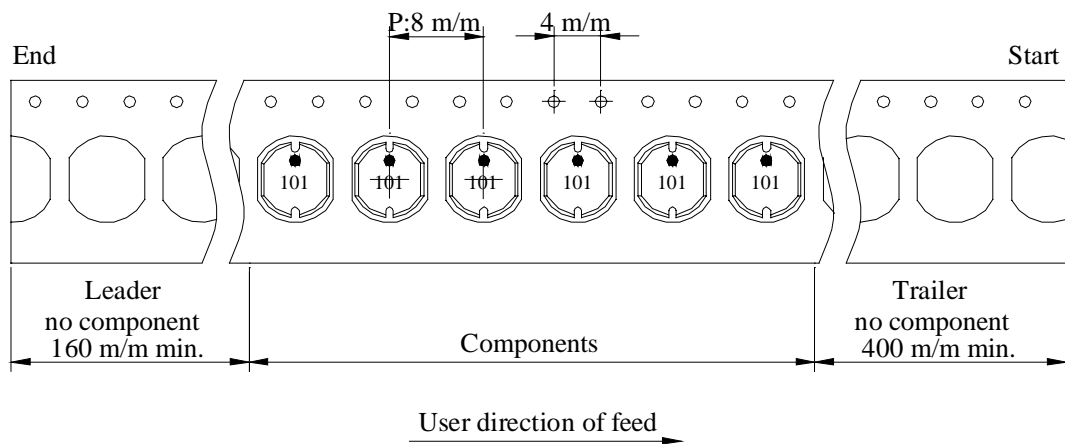
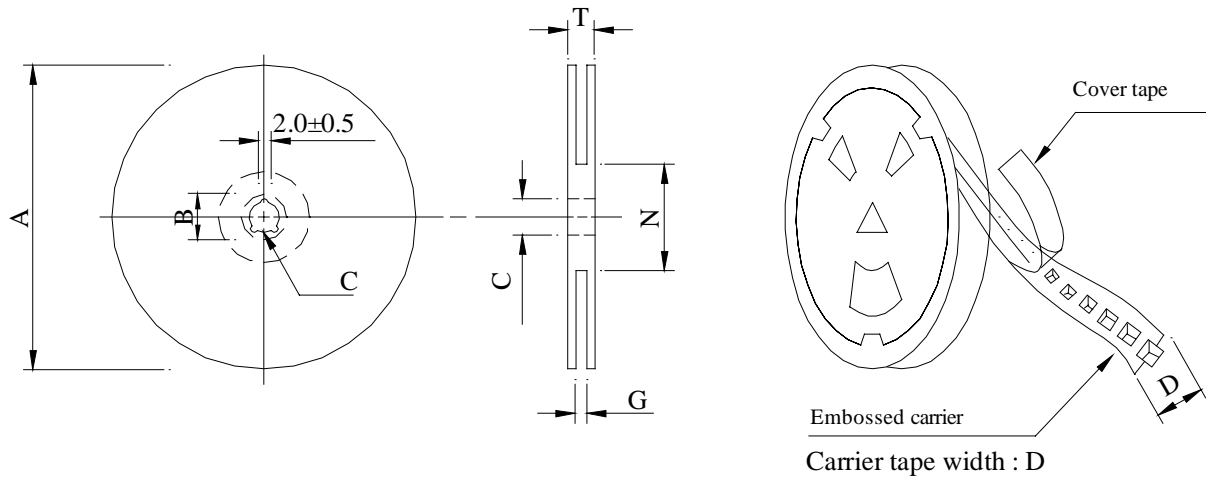
REF :

PAGE: 3

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SR0502□□□□L□
---------------	--------------------	---------------------------------	--------------

## PACKAGING INFORMATION

### (1) Configuration



### (2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13±0.5	12	14 <sup>+0</sup>	50 <sup>-0</sup>	16.5

### (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)
SR0502	800	416	07 - 12	32,000	16.6	42 x 41 x 24

AE-001A

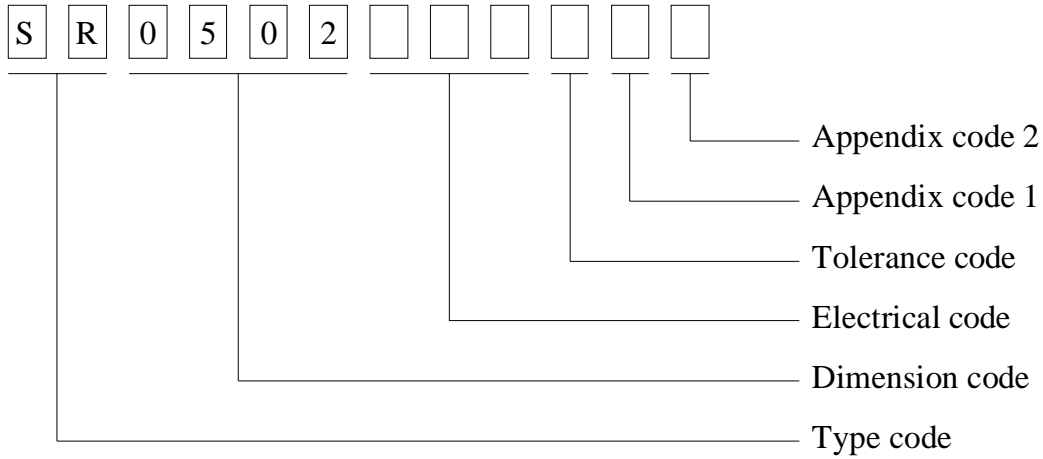
# SPECIFICATION FOR APPROVAL

REF :

PAGE: 4

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0502□□□□L□
		ABC'S ITEM NO.	

. DWG EXPRESSION :



- Appendix code 1 : S : Standard products  
 A K , M R , T Z : Special products  
 L : Standard Lead Free products  
 1 ~ 9 : Special Lead Free products

Appendix code 2 :

Code	Inner package	Inner package Q'TY	Remark
A	Empty	Empty	
B	T / R ( Reel package )	800 pcs	

# SPECIFICATION FOR APPROVAL

REF :

PAGE: 5

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0502□□□□L□
		ABC'S ITEM NO.	

**. RELIABILITY TEST :**

Test item	Specification	Test condition						
Solderability	More than 90% of the terminal electrode shall be covered With fresh solder.	Preheat : 150±25 for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5 Flux : Rosin Dip time : 4±1 seconds						
Thermal shock test ( Temp. cycle )	Inductance shall not change more than ±20%	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">-25±2 30 minutes</td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">85±2 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-25±2 30 minutes	Room temp. 15 minutes	→	85±2 30 minutes
Room temp. 15 minutes	→	-25±2 30 minutes						
Room temp. 15 minutes	→	85±2 30 minutes						
Humidity Resistance test		Temperature : 40±2 Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours						
High temp. Resistance test		Temperature : 105±2 Applied current : Per spec. Time : 500 hours						

AE-001A



