

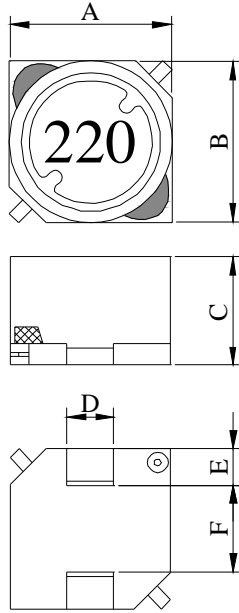
# SPECIFICATION FOR APPROVAL

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS7032□□□□L□-□□□
		ABC'S ITEM NO.	

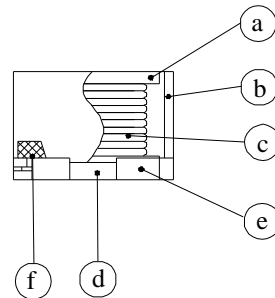
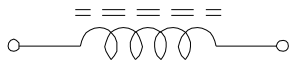
### I . MECHANICAL DIMENSIONS :



- A : 7.00±0.3 m/m
- B : 7.00±0.3 m/m
- C : 3.20±0.2 m/m
- D : 2.00 typ m/m
- E : 1.50 typ. m/m
- F : 4.00 typ. m/m
- G : 2.40 ref m/m
- H : 7.80 ref m/m
- I : 1.80 ref m/m
- J : 4.20 ref m/m

( PCB Pattern )

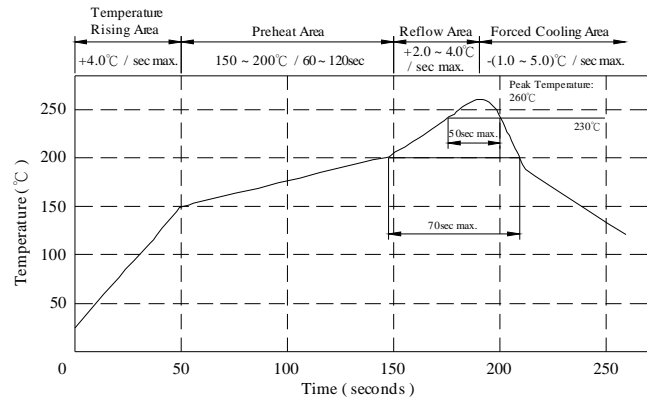
### II . SCHEMATIC DIAGRAM :



### III . MATERIALS LIST :

- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire ( class F)
- d . Terminal : Cu/Ni/Sn
- e . Base : LCP Base
- f . Adhesive : Epoxy resin
- g . Remark : Products comply with RoHS' requirements

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



### IV . ELECTRICAL CHARACTERISTICS :

- a . Temp. rise : 30°C max.
- b . Storage temp. : -40°C ----+125°C
- c . Operating temp. : -25°C ----+105°C
- d . Resistance to solder heat : 260°C . 10 secs.

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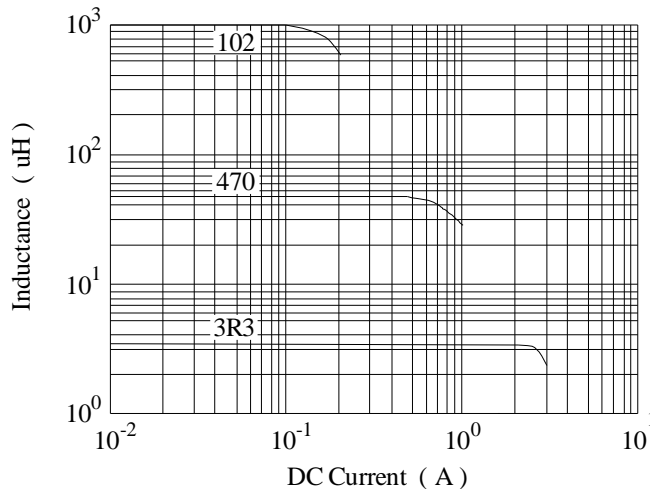
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		ABC'S ITEM NO.	

**V . ELECTRICAL CHARACTERISTICS :**

DWG No.	Inductance (uH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (Ω) max.	Irms (A)	Isat (A)
SS70323R3ML□-□□□	3.3±20%	16	7.96	55.0	0.027	2.40	2.20
SS70324R7ML□-□□□	4.7±20%	16	7.96	43.0	0.042	2.00	2.00
SS70326R8ML□-□□□	6.8±20%	17	7.96	37.0	0.054	1.60	1.80
SS7032100ML□-□□□	10.0±20%	25	2.52	35.0	0.068	1.40	1.60
SS7032150ML□-□□□	15.0±20%	22	2.52	32.0	0.095	1.10	1.20
SS7032220ML□-□□□	22.0±20%	20	2.52	29.0	0.135	0.96	1.05
SS7032330ML□-□□□	33.0±20%	23	2.52	20.0	0.200	0.76	0.86
SS7032470ML□-□□□	47.0±20%	26	2.52	18.0	0.270	0.67	0.70
SS7032680ML□-□□□	68.0±20%	22	2.52	16.0	0.380	0.60	0.67
SS7032101ML□-□□□	100.0±20%	28	0.796	12.0	0.540	0.45	0.50
SS7032151ML□-□□□	150.0±20%	35	0.796	10.0	0.800	0.37	0.38
SS7032221ML□-□□□	220.0±20%	47	0.796	7.5	1.300	0.30	0.32
SS7032331ML□-□□□	330.0±20%	46	0.796	6.1	1.900	0.22	0.24
SS7032471ML□-□□□	470.0±20%	34	0.796	5.1	2.400	0.20	0.20
SS7032681ML□-□□□	680.0±20%	58	0.796	3.8	3.750	0.16	0.15
SS7032102ML□-□□□	1000.0±20%	120	0.252	3.1	5.400	0.15	0.14

- 1). □ : Packaging Information...  Bulk  Taping Reel
- 2). "- □□□": Reference code
- 3). L Test Freq. : 1KHz / 0.5V
- 4). Irms base on Temp. rise 30°C max.
- 5). Isat base on ΔL/L0A=10% typ.

@ Inductance VS. DC Superposition Characteristics



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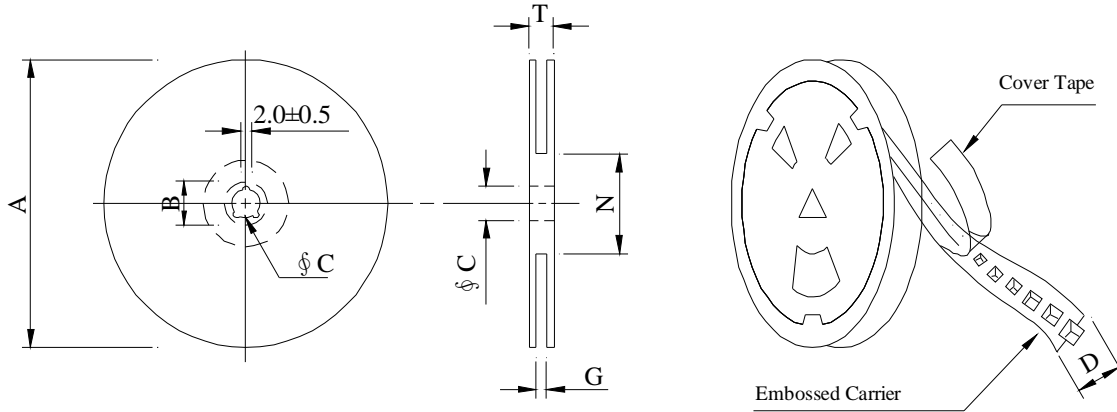
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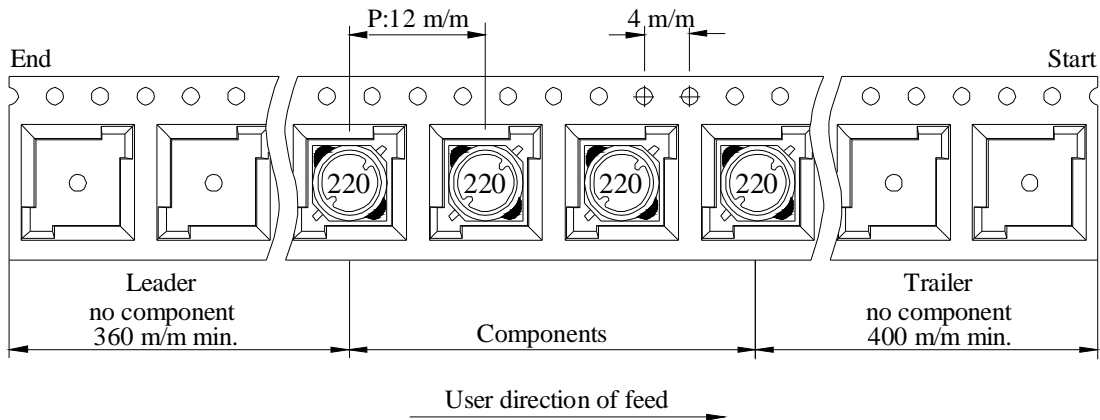
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		ABC'S ITEM NO.	

## VI . PACKAGING INFORMATION :

### ( 1 ) Configuration



※Carrier Tape Width : D



### ( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18 <sup>+0</sup>	50 <sup>-0</sup>	22.4

### ( 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)
SS7032	1,500	200	13 - 16	9,000	1.44	40 x 40 x 24
SS7032	1,000	135	13 - 16	6,000	0.96	40 x 40 x 24

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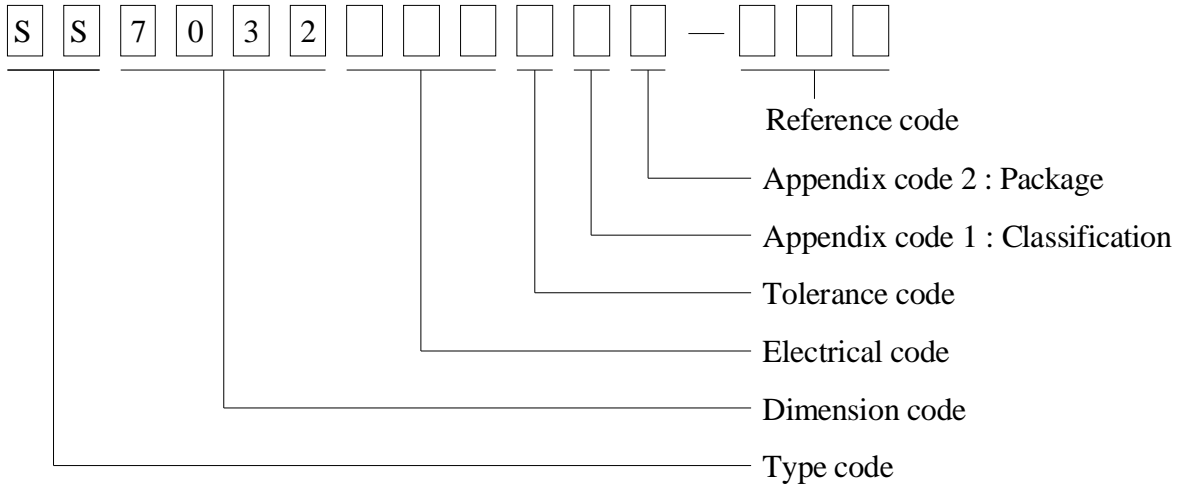
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		ABC'S ITEM NO.	

**VII . DWGING NUMBER EXPRESSION :**



**Appendix code 1 : Product Classification**

- L : Lead Free Standard products comply with RoHS' requirements
- 1 ~ 9 : Lead Free Special products comply with RoHS' requirements

**Appendix code 2 : Package Information**

Code	Inner package	Inner package Q'TY	Remark
A	T.B.D.	T.B.D.	
B	T / R ( Reel package )	1500 pcs	
C	T / R ( Reel package )	1000 pcs	

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		ABC'S ITEM NO.	

**VIII . RELIABILITY TEST :**

Test item	Specification	Test condition						
Solderability	More than 95% of the terminal electrode shall be covered With fresh solder.	Preheat : 155°C / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 5±0.5 seconds						
Thermal shock test ( Temp. cycle )	Electrical oharacteristics shall not change more than ±20%	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">-25 °C 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;">+105 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-25 °C 30 minutes	Room temp. 15 minutes	→	+105 °C 30 minutes
Room temp. 15 minutes		→	-25 °C 30 minutes					
Room temp. 15 minutes		→	+105 °C 30 minutes					
Humidity Test		Temperature : 40±2°C Humidity : 90±5% Time : 1000 hours						
High temp. Resistance test	Temperature : 105±5°C Applied current : Per spec. Time : 96 hours							

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SS7032□□□□L□-□□□
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SUMITOMO CHEMICAL CO LTD										E54705 (M)	
5-33 KITAHAMA 4-CHOME CHUO-KO, OSAKA JAPAN											
Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI		H W I	H A I	H V R	D 4 5	C T I
					with Imp	Mech w/o Imp					
Liquid crystal polyester (LCP), designated "EKONOL" or "SUMIKASUPER", furnished in the form of pellets. (Contd)											
E4008 , E400X	NC, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	3	4	—	—	—
		1.5	94V-0	130	130	130	2	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4
E4008	NC, WT, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	220	180	220	3	4	—	—	—
		1.5	94V-0	220	200	240	2	4	—	—	—
		3.0	94V-0	220	200	240	1	4	0	5	4
E4010	NC, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	220	180	220	3	4	—	—	—
		1.5	94V-0	220	200	240	2	4	—	—	—
		3.0	94V-0	220	200	240	1	4	0	5	4
E400(Y)L, E4008L	NC, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	3	4	—	—	—
		1.5	94V-0	130	130	130	2	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4
E4810	NC, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	0	4	—	—	—
		1.5	94V-0	130	130	130	0	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4

(X) Denotes any number 1 thru 9.  
(Y) Denotes any number 1 thru 7.

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