

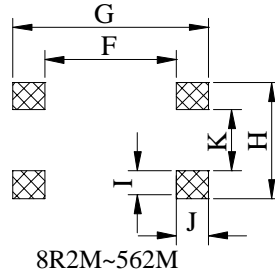
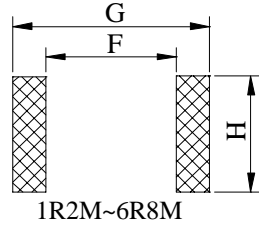
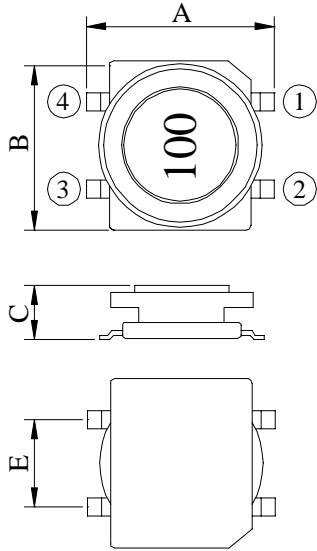
# SPECIFICATION FOR APPROVAL

REF :

PAGE: 1

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SS0802□□□□L□-□□□
------------	--------------------------------	---------------------------------	------------------

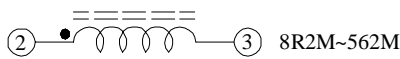
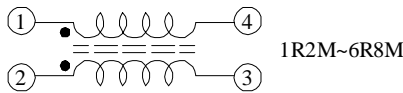
**. CONFIGURATION & DIMENSIONS :**



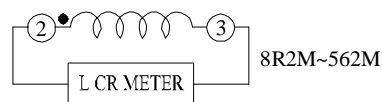
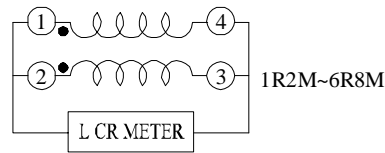
( PCB Pattern )

A	: 7.80±0.5	m/m
B	: 7.50±0.3	m/m
C	: 2.45±0.3	m/m
E	: 3.50±0.2	m/m
F	: 5.8 ref.	m/m
G	: 8.6 ref.	m/m
H	: 4.8 ref.	m/m
I	: 1.4 ref.	m/m
J	: 1.4 ref.	m/m
K	: 2.0 ref.	m/m

**. SCHEMATIC DIAGRAM :**



**. TEST CIRCUIT :**

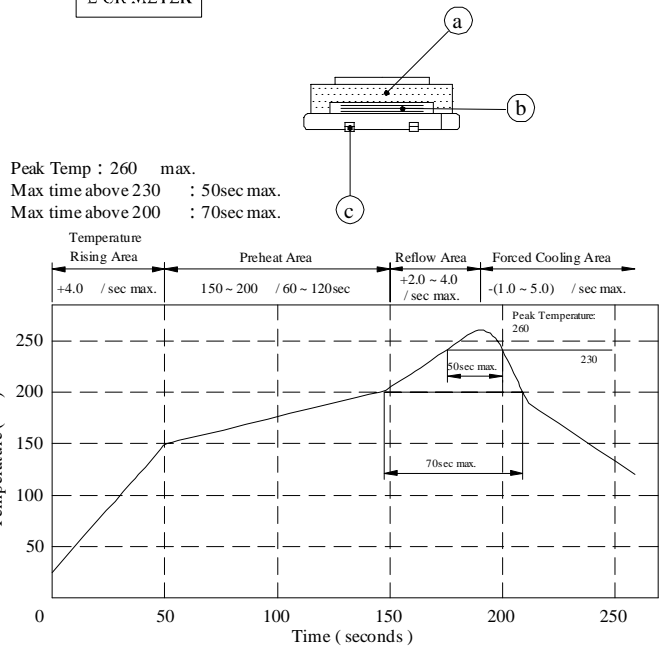


**. MATERIALS :**

- a . Core : Ferrite
- b . Wire : Enamelled copper wire (class F)
- c . Terminal : Phosphor bronze
- d . Encapsulate : Epoxy resin
- e . Remark : Products comply with RoHS' requirements

**. GENERAL SPECIFICATION :**

- a . Temp. rise : 40 max.
- b . Rated current : Current cause inductance drop within 10% typ.
- c . Storage temp. : -40 ----+105
- d . Operating temp. : -40 ----+85
- e . Resistance to solder heat : 260 .10 secs.



AE-001A

# SPECIFICATION FOR APPROVAL

REF :

PAGE: 2

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS0802□□□□L□-□□□
		ABC'S ITEM NO.	

**. ELECTRICAL CHARACTERISTICS :**

DWG No.	Inductance ( $\mu$ H)	Q ref.	Test Freq. (MHz)		SRF (MHz) nom.	RDC ( $\Omega$ ) max.	Irms (mA)max. T=40	Isat (mA)typ. $\Delta$ L/L0A=10%
			L	Q				
SS08021R2ML□-□□□	1.20±20%	20	1K	7.96	140.0	0.030	2600	2800
SS08021R5ML□-□□□	1.50±20%	17	1K	7.96	115.0	0.032	2400	2500
SS08022R2ML□-□□□	2.20±20%	16	1K	7.96	95.0	0.035	2200	2300
SS08022R7ML□-□□□	2.70±20%	16	1K	7.96	85.0	0.040	2100	2200
SS08023R3ML□-□□□	3.30±20%	20	1K	7.96	65.0	0.065	1800	2000
SS08023R9ML□-□□□	3.90±20%	16	1K	7.96	60.0	0.068	1500	1700
SS08024R7ML□-□□□	4.70±20%	17	1K	7.96	55.0	0.072	1300	1600
SS08025R6ML□-□□□	5.60±20%	18	1K	7.96	50.0	0.080	1200	1450
SS08026R8ML□-□□□	6.80±20%	15	1K	7.96	48.0	0.090	1000	1200
SS08028R2ML□-□□□	8.20±20%	20	1K	7.96	42.0	0.110	820	860
SS0802100ML□-□□□	10.00±20%	25	1K	2.52	36.0	0.145	730	770
SS0802120ML□-□□□	12.00±20%	20	1K	2.52	32.0	0.180	650	690
SS0802150ML□-□□□	15.00±20%	22	1K	2.52	30.0	0.220	600	650
SS0802180ML□-□□□	18.00±20%	20	1K	2.52	28.0	0.260	560	620
SS0802220ML□-□□□	22.00±20%	20	1K	2.52	22.0	0.380	480	540
SS0802270ML□-□□□	27.00±20%	32	1K	2.52	20.0	0.420	430	480
SS0802330ML□-□□□	33.00±20%	30	1K	2.52	18.0	0.500	400	440
SS0802390ML□-□□□	39.00±20%	32	1K	2.52	16.5	0.620	380	420
SS0802470ML□-□□□	47.00±20%	25	1K	2.52	15.0	0.650	350	390
SS0802560ML□-□□□	56.00±20%	22	1K	2.52	13.5	0.720	330	360
SS0802680ML□-□□□	68.00±20%	25	1K	2.52	13.0	0.950	280	320
SS0802820ML□-□□□	82.00±20%	25	1K	2.52	12.0	1.100	260	300
SS0802101ML□-□□□	100.00±20%	65	1K	0.796	11.5	1.250	230	260
SS0802121ML□-□□□	120.00±20%	50	1K	0.796	10.2	1.400	210	240
SS0802151ML□-□□□	150.00±20%	45	1K	0.796	9.2	1.650	185	210
SS0802181ML□-□□□	180.00±20%	55	1K	0.796	8.8	2.000	170	200
SS0802221ML□-□□□	220.00±20%	45	1K	0.796	8.2	2.500	165	190
SS0802271ML□-□□□	270.00±20%	65	1K	0.796	7.5	3.600	145	165
SS0802331ML□-□□□	330.00±20%	62	1K	0.796	6.8	4.000	132	152
SS0802391ML□-□□□	390.00±20%	35	1K	0.796	5.6	4.500	125	145
SS0802471ML□-□□□	470.00±20%	50	1K	0.796	4.8	6.600	106	126
SS0802561ML□-□□□	560.00±20%	85	1K	0.796	4.2	7.200	100	115
SS0802681ML□-□□□	680.00±20%	90	1K	0.796	4.0	8.000	90	100
SS0802821ML□-□□□	820.00±20%	80	1K	0.796	3.8	9.500	85	95
SS0802102ML□-□□□	1000.00±20%	110	1K	0.252	3.6	14.000	78	86
SS0802122ML□-□□□	1200.00±20%	105	1K	0.252	3.2	17.000	72	82
SS0802152ML□-□□□	1500.00±20%	105	1K	0.252	3.0	20.500	65	75
SS0802182ML□-□□□	1800.00±20%	92	1K	0.252	2.8	26.000	58	68
SS0802222ML□-□□□	2200.00±20%	95	1K	0.252	2.6	32.000	55	64
SS0802272ML□-□□□	2700.00±20%	105	1K	0.252	2.0	36.500	48	58
SS0802332ML□-□□□	3300.00±20%	90	1K	0.252	1.8	40.500	42	52
SS0802392ML□-□□□	3900.00±20%	115	1K	0.252	1.6	48.000	38	45
SS0802472ML□-□□□	4700.00±20%	100	1K	0.252	1.2	62.000	28	32
SS0802562ML□-□□□	5600.00±20%	110	1K	0.252	1.0	68.000	20	25

- 1). □ : Packaging information... [A]: Bulk [B]: Taping Reel  
 2). "- □□□ " : Reference code

AE-001A



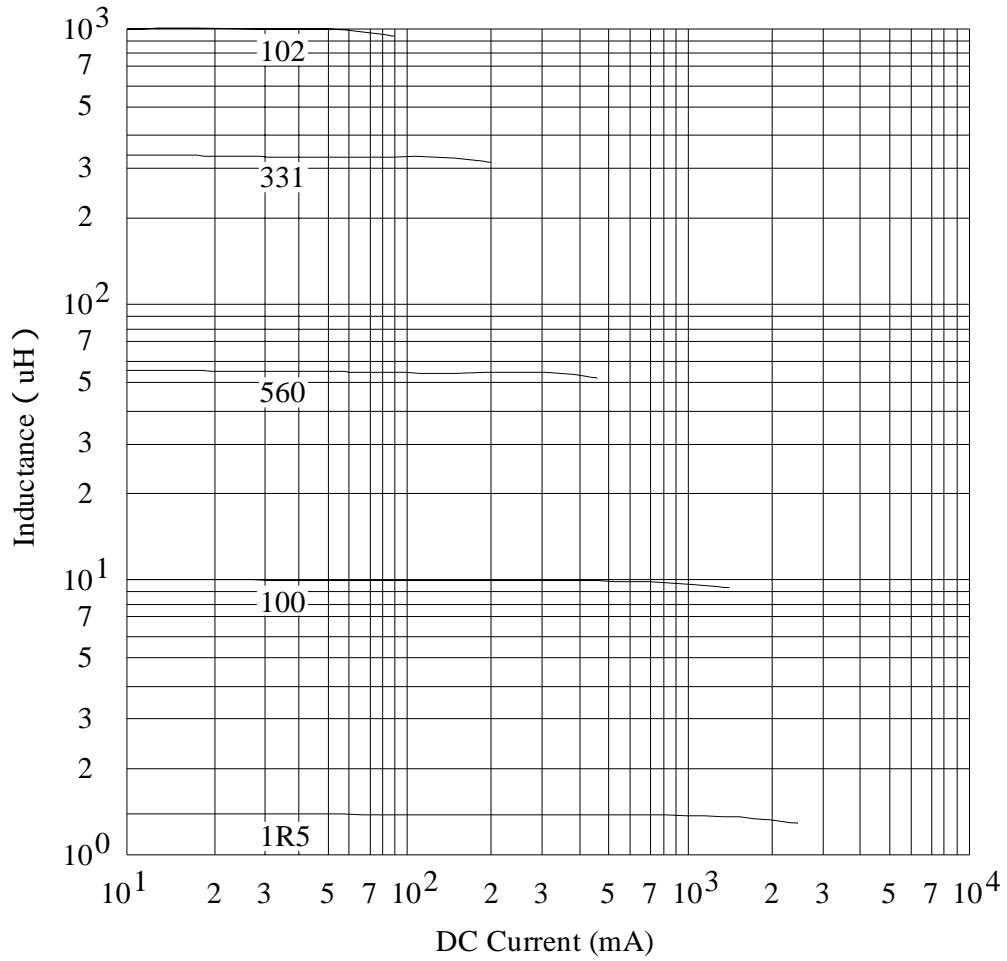
# SPECIFICATION FOR APPROVAL

REF :

PAGE: 3

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS0802□□□□L□-□□□
		ABC'S ITEM NO.	

. INDUCTANCE VS. DC CURRENT CURVE :



AE-001A

# SPECIFICATION FOR APPROVAL

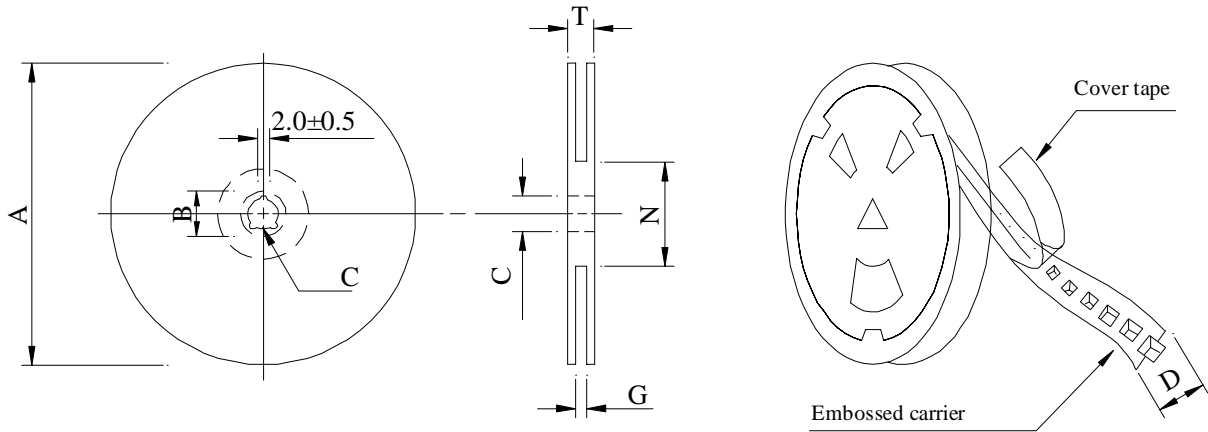
REF :

PAGE: 4

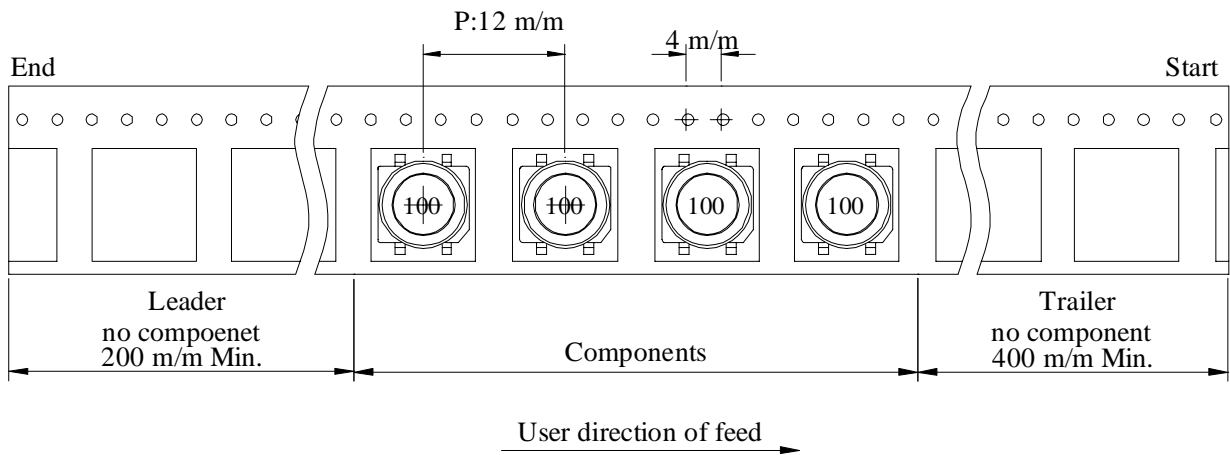
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS0802□□□□L□-□□□
		ABC'S ITEM NO.	

**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	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)
SS0802	1,500	460	13 - 16	9,000	6.5	40 x 40 x 24

AE-001A





# SPECIFICATION FOR APPROVAL

REF :

PAGE: 6

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SS0802□□□□L□-□□□
---------------	--------------------------------	---------------------------------	------------------

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: none;"> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;"><math>\frac{-25\pm 2}{30 \text{ minutes}}</math></td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;"><math>\frac{85\pm 2}{30 \text{ minutes}}</math></td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	$\frac{-25\pm 2}{30 \text{ minutes}}$	Room temp. 15 minutes	→	$\frac{85\pm 2}{30 \text{ minutes}}$
Room temp. 15 minutes	→	$\frac{-25\pm 2}{30 \text{ minutes}}$						
Room temp. 15 minutes	→	$\frac{85\pm 2}{30 \text{ minutes}}$						
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



# SPECIFICATION FOR APPROVAL

REF :

PAGE: 8

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SS0802□□□□L□-□□□
---------------	--------------------------------	---------------------------------	------------------

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 Mech with Imp	w/o Imp	H W I	H A I	H V T R	D 4 5	C T I
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.

AE-001A

