SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SS1260□□□□F□-□□□		
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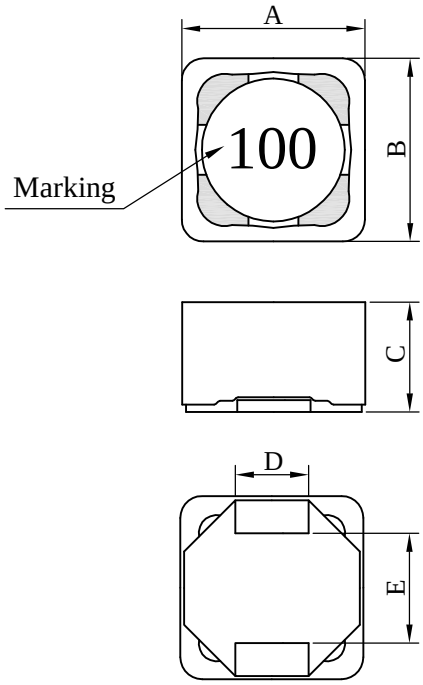
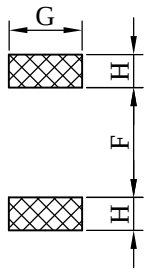
Ⅰ．Configuration and dimensions：





(PCB Pattern)

Unit：m/m

A	B	C	D	E	F	G	H
12.50 ±0.3	12.50 ±0.3	6.00 ±0.5	5.00 ±0.3	7.00 typ.	6.80 ref.	5.40 ref.	2.90 ref.

Ⅱ．Description：

a．Ferrite drum core construction.

b．Magnetically shielded.

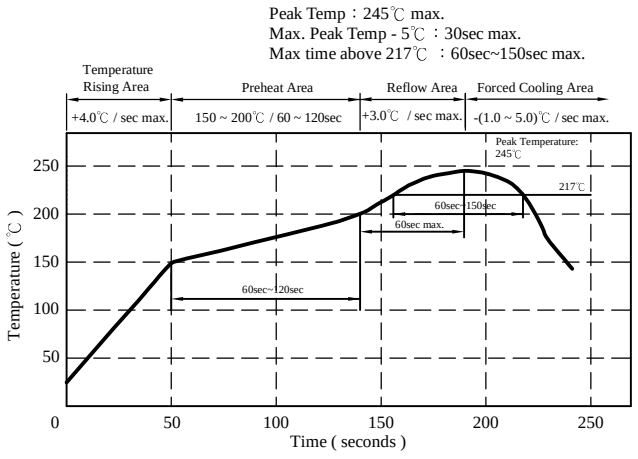
c．Enamelled copper wire：F class

d．Product weight： 3.645 g（ref.）

e．Moisture sensitivity Level 1

f．Products comply with RoHS' requirements

g．Halogen free available



Ⅲ．General specification：

a．Storage temp.：-40℃ ----+125℃

b．Operating temp.：-40℃----+125℃

(Temp. rise included)

c．Resistance to solder heat：245℃.10 secs.

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Ⅳ．Electrical characteristics：

DWG No.	Inductance (μH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (mΩ) max.	Irms (A) typ.	Isat (A) typ.
SS12601R0YF□-□□□	1.0±30%	26	7.96	100.00	7.8	9.40	10.00
SS12601R2YF□-□□□	1.2±30%	18	7.96	91.10	8.0	9.20	9.80
SS12601R5YF□-□□□	1.5±30%	24	7.96	86.00	9.5	8.80	9.00
SS12602R2YF□-□□□	2.2±30%	22	7.96	70.00	10.5	8.20	8.50
SS12602R4YF□-□□□	2.4±30%	18	7.96	63.80	11.5	7.80	8.00
SS12603R3YF□-□□□	3.3±30%	20	7.96	40.00	12.0	7.60	7.80
SS12603R5YF□-□□□	3.5±30%	22	7.96	37.60	13.0	7.50	7.60
SS12604R7YF□-□□□	4.7±30%	19	7.96	36.70	15.5	6.80	7.00
SS12605R6YF□-□□□	5.6±30%	19	7.96	33.00	16.2	6.70	6.90
SS12606R1YF□-□□□	6.1±30%	21	7.96	29.80	17.0	6.60	6.80
SS12606R8YF□-□□□	6.8±30%	20	7.96	28.20	18.0	6.30	6.50
SS12607R6YF□-□□□	7.6±30%	16	7.96	27.90	19.0	6.00	6.20
SS12608R2YF□-□□□	8.2±30%	18	7.96	24.00	19.5	5.70	5.80
SS1260100MF□-□□□	10.0±20%	32	2.52	21.00	20.0	5.50	5.50
SS1260120MF□-□□□	12.0±20%	27	2.52	19.40	23.0	5.20	5.00
SS1260150MF□-□□□	15.0±20%	25	2.52	17.60	27.0	5.00	4.60
SS1260180MF□-□□□	18.0±20%	28	2.52	15.50	36.0	4.20	3.90
SS1260220MF□-□□□	22.0±20%	29	2.52	13.40	43.0	4.00	3.70
SS1260270MF□-□□□	27.0±20%	26	2.52	12.70	45.0	3.60	3.30
SS1260330MF□-□□□	33.0±20%	27	2.52	9.97	60.0	3.00	2.80
SS1260390MF□-□□□	39.0±20%	22	2.52	10.40	70.0	2.80	2.70
SS1260470MF□-□□□	47.0±20%	22	2.52	7.63	86.0	2.60	2.50
SS1260560MF□-□□□	56.0±20%	24	2.52	7.92	100.0	2.30	2.20
SS1260680MF□-□□□	68.0±20%	22	2.52	7.43	110.0	2.10	2.10
SS1260820MF□-□□□	82.0±20%	25	2.52	6.85	145.0	1.95	1.90
SS1260101MF□-□□□	100.0±20%	26	0.796	6.07	180.0	1.70	1.70
SS1260121KF□ -□□□	120.0±10%	26	0.796	5.50	210.0	1.65	1.65
SS1260151KF□ -□□□	150.0±10%	20	0.796	5.00	260.0	1.55	1.55
SS1260181KF□ -□□□	180.0±10%	26	0.796	4.50	320.0	1.40	1.40
SS1260221KF□ -□□□	220.0±10%	22	0.796	4.20	380.0	1.38	1.30
SS1260271KF□ -□□□	270.0±10%	20	0.796	3.60	450.0	1.30	1.20
SS1260331KF□ -□□□	330.0±10%	22	0.796	3.20	580.0	1.15	1.10
SS1260391KF□ -□□□	390.0±10%	20	0.796	2.80	700.0	1.08	1.00
SS1260471KF□ -□□□	470.0±10%	18	0.796	2.60	820.0	0.95	0.90
SS1260561KF□ -□□□	560.0±10%	22	0.796	2.40	1000.0	0.88	0.80
SS1260681KF□ -□□□	680.0±10%	18	0.796	2.20	1150.0	0.80	0.75
SS1260821KF□ -□□□	820.0±10%	20	0.796	2.00	1500.0	0.73	0.63
SS1260102KF□ -□□□	1000.0±10%	30	0.252	1.80	1700.0	0.68	0.60

1). □：Packaging information：□ Code

2). "-□□□"：Reference code

3). Electrical specifications at 25℃

4). L Test Freq.：100kHz / 0.1V (1R0Y~8R2Y)，1kHz / 1V (100M~102K)

5). Irms Base on temp rise 40℃ typ.

6). Isat Base on △L/L0A=25% typ.

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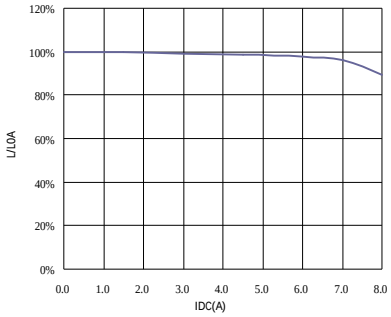
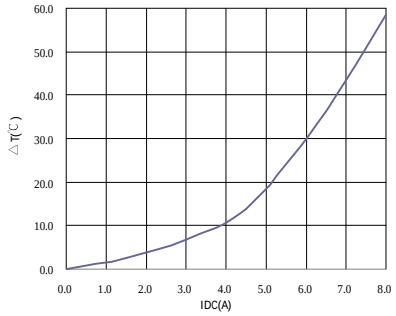
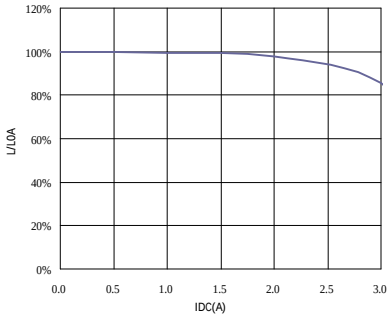
V ．Curve：

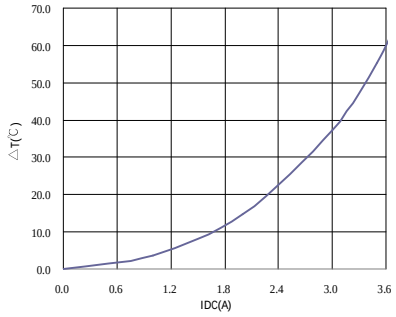
SS12604R7YF□



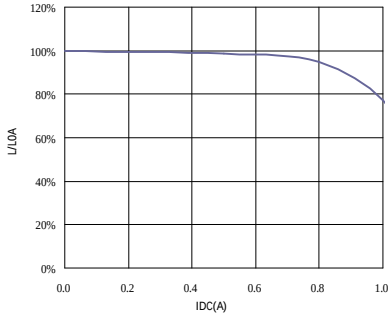


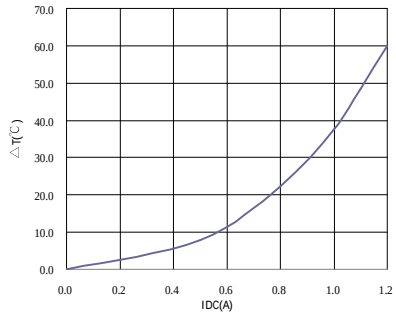
SS1260470MF□



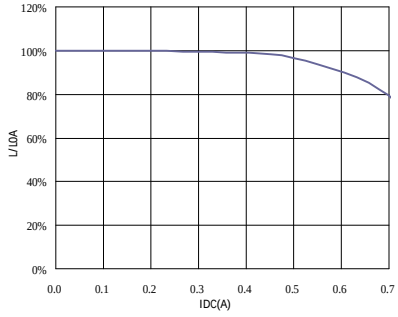


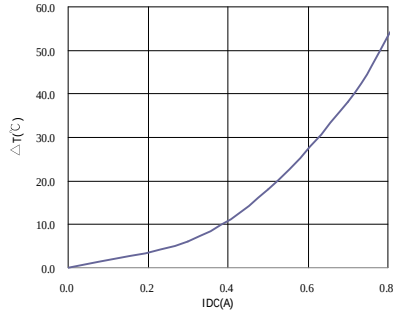
SS1260471KF□





SS1260102KF□





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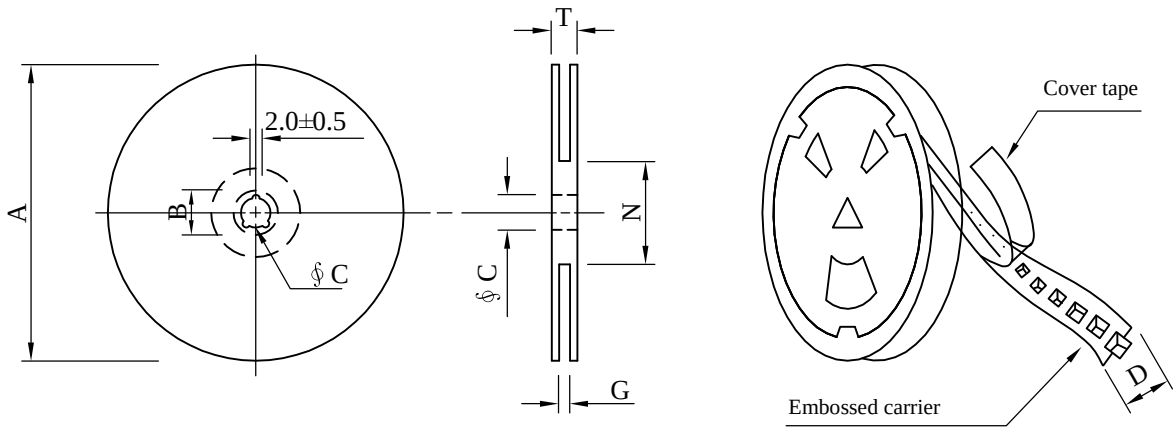
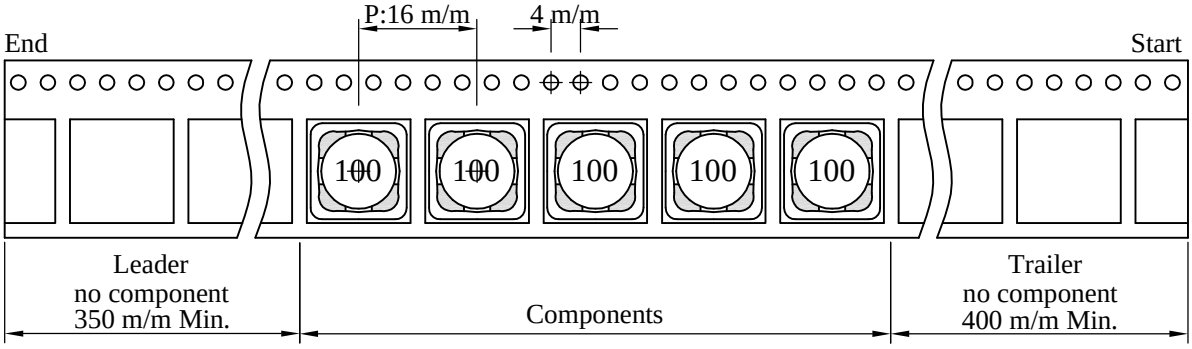
Ⅵ．Packaging information：

(1) Configuration



※Carrier tape width : D



User direction of feed

(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13±0.5	24	26^{+0}	60^{-0}	30.4

(3) Q'TY & G.W. Per package

Code	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
B	600	2460	13 - 24	2,400	11.1	38 x 37 x 22
C	500	2130	13 - 24	2,000	9.8	38 x 37 x 22

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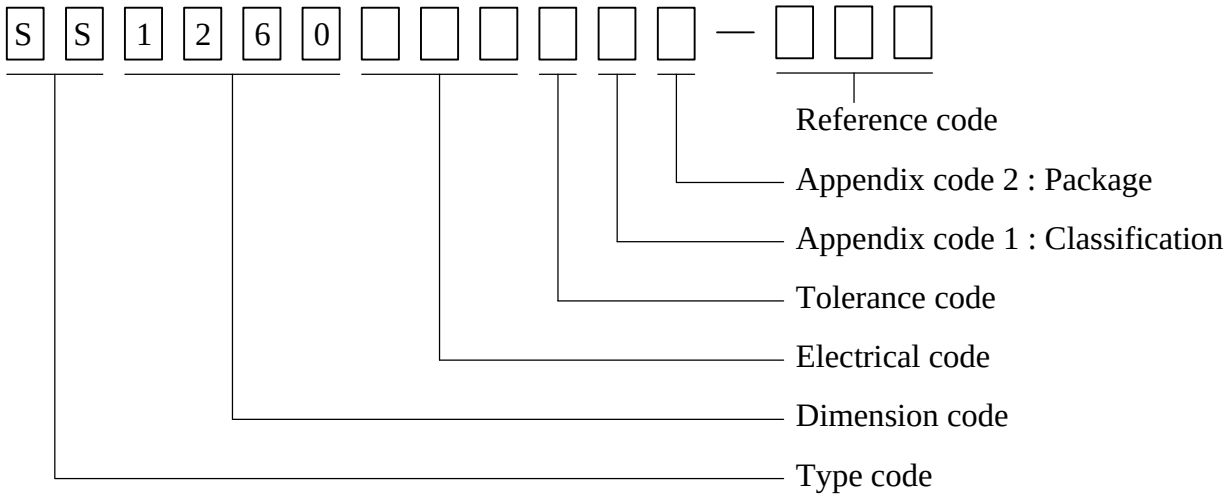
Ⅵ．Drawing number expression：



Appendix code 1：Product Classification

Appendix code 2：Package Information

Code	Inner package	Cover tape	Carrier tape	Bag	Package Q'TY	Remark
B	T /R (Reel package)	UCT	Antistatic	Antistatic	600 pcs	
C	T /R (Reel package)	UCT	Antistatic	Antistatic	500 pcs	

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Ⅷ．Reliability test：

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 125±2℃ 2.Time:96±2 hours.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
2.Temperature Cycling	JESD22-A 104	1.Temperature: -40℃ ~ +125℃ 2.Number of cycle:100 cycle 3.Dwell time:30 minutes	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature：85±2 ℃ 2.Humidity: 85% RH. 3.Time:96±2 Hours	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
4.Operational Life	JESD22-A 108	1.Temperature: 125℃ (Temp. rise included) 2.Time:96±2 hours. 3.Rated current	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
5.External Visual	JESD22-B 101 & MIL-STD-883 Method 2009	Inspect product constructions, marking and workmanship.	1.No pollution on the surface of products. 2.Clear marking. 3.No crack.
6.Physical Dimensions	JESD22-B 100	Verify physical dimensions to the applicable product detail specification.	Per product specification standard
7.Resistance to solvents	MIL-STD-202 Method 215	Immerse into solvent for 3±0.5 minutes & brush 10 times for 3 cycles.	1.No body change in apperarance. 2.No marking blurred. 3.Inductance shall not change more than ±20%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitued : 10-2000-10 Hz, 1.5 mm. 2.Direction:X, Y, Z 3.Test duration:2 hours for each direction, 6 hours in total.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210 & J-STD020D.1	1.Highest temperature：245±5℃. 2.Time（temp.≧ 217℃）：60~150 Second. 3.IR reflow times：3 times.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
10.Saturation Current	JIS C 6436 & User SPEC.	1.Applied rated current for 5 second. 2.Saturation current	Inductance shall not drop more than 25% typ.
11.Over load	JIS C 6436 & User SPEC.	1.Applied one and half rated current for a period of 5 minutes. 2.Rated current	No electrical or mechanical damage
12.Temperature Rise Current	JIS C 6436 & User SPEC.	1.Applied rated current for 10 minutes. 2.Temperature measure by digital surface thermometer. 3.Irms current	Surface temperature rise is less than 40℃ typ.
13.Solderability Test	J-STD-002 & JESD22-B 102	1.Baking in pre-testing：150±5℃ / 16Hours±30 min. 2.Peak temperature：240±5℃ 3.Time（temp.≧217℃）：60~150 second. 4.IR reflow times：1 times.	More than 95% soldering coverage min on terminations.
14.Electrical Characteriazation	MIL-STD-202 Method 304 & User SPEC.	1.Operating temperature：-40℃~125℃ 2.Room temperature：25℃.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
15.Drop	CNS-C6354 & GB/T 2423.8	1.Products shall be mounted on SPEC. PCB and dropped down from a height of 1m 2.Drop total time：6 time (Every side of sample drop 2 time)	1. Adhesion on PCB shall be enough. 2. Product appearance shall not break. 3. No electrical damage.
16.Terminal Strength Test	IEC 60068-2-21	1.Apply push force to samples mounted on PCB. 2.Force of 1.8 kg for 60±1 seconds.	After test, inductors shall be no mechanical damage.