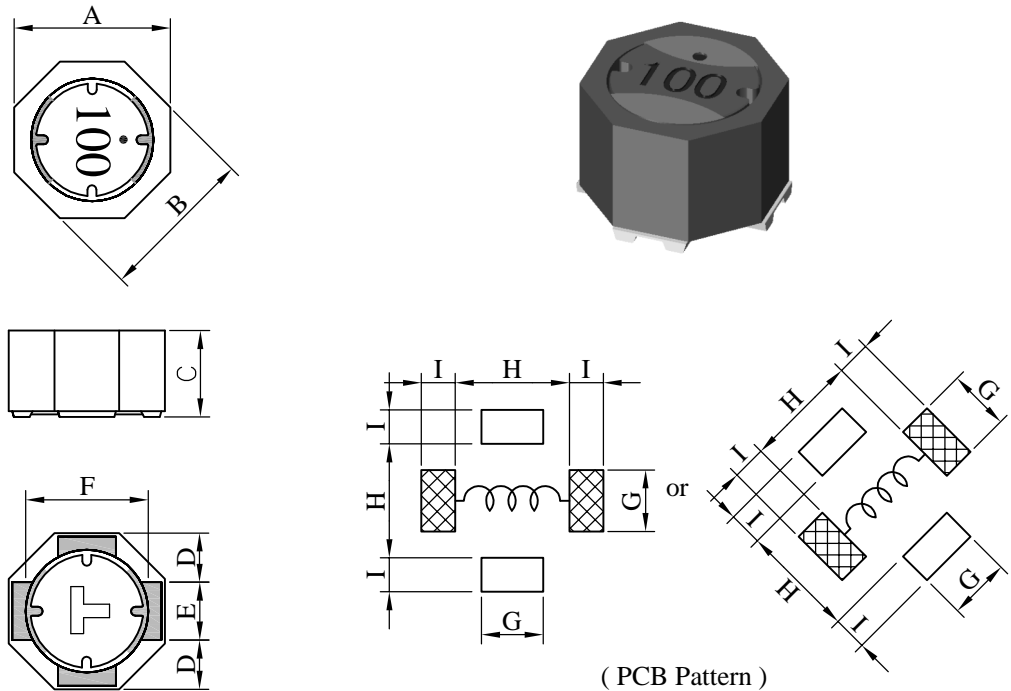


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SU8058□□□□F□-□□□	
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I . Configuration and dimensions :



(PCB Pattern)

Unit : m/m

A	B	C	D	E	F	G	H	I
8.00 ±0.3	8.00 ±0.3	5.80 ±0.3	2.40 typ.	3.20 typ.	6.40 typ.	3.40 ref.	6.20 ref.	1.40 ref.

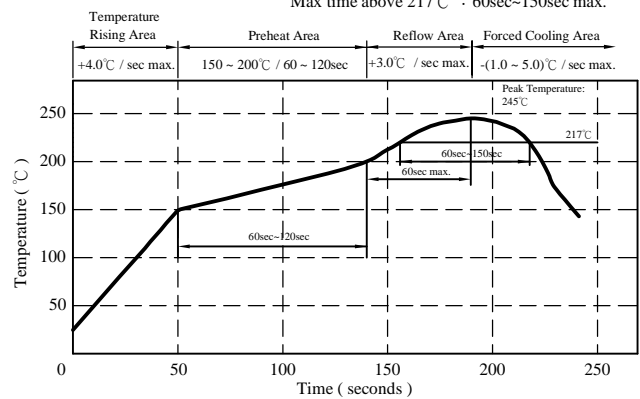
II . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : F class
- d . Product weight : 1.2 g (ref.)
- e . Moisture sensitivity Level 1
- f . Products comply with RoHS' requirements
- g . Halogen free available

Peak Temp : 245°C max.
Max. Peak Temp - 5°C : 30sec max.
Max time above 217°C : 60sec-150sec max.

III . General specification :

- a . Storage temp. : -40°C ----+125°C
- b . Operating temp. : -40°C ----+125°C
(Temp. rise included.)
- c . Resistance to solder heat : 245°C .10 secs.



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REF. :

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IV . Electrical characteristics :

DWG No.	Inductance (μ H)	Q ref.	Test Freq.		SRF (MHz) typ.	RDC (m Ω)		Irms (A)	Isat (A)
			L(kHz)	Q(MHz)		typ.	max.		
SU80583R9YF□-□□□	3.9 \pm 30%	8	100	7.96	45.0	12.0	16.0	6.50	4.50
SU80585R2YF□-□□□	5.2 \pm 30%	8	100	7.96	35.0	14.0	17.5	5.80	3.90
SU80586R8YF□-□□□	6.8 \pm 30%	8	100	7.96	30.0	16.0	20.0	5.50	4.00
SU8058100YF□-□□□	10.0 \pm 30%	20	100	2.52	18.0	18.6	25.0	4.60	3.00
SU8058220YF□-□□□	22.0 \pm 30%	20	100	2.52	14.0	42.0	52.0	3.40	1.80
SU8058330YF□-□□□	33.0 \pm 30%	16	100	2.52	10.0	58.0	72.0	2.70	1.60
SU8058470YF□-□□□	47.0 \pm 30%	12	100	2.52	7.0	80.0	100.0	2.30	1.50
SU8058680YF□-□□□	68.0 \pm 30%	16	100	2.52	6.0	100.0	130.0	2.00	1.20
SU8058101YF□-□□□	100.0 \pm 30%	22	100	0.796	5.0	124.0	160.0	1.70	0.90

- 1). □: Packaging information : □ Code
- 2). "- □□□ " : Reference code
- 3). Electrical specifications at 25°C
- 4). Inductance Test Freq. : 100kHz / 0.1V
- 5). Isat base on $\Delta L / L0A=35\%$ typ.
- 6). Irms base on Temp. rise 40°C typ.

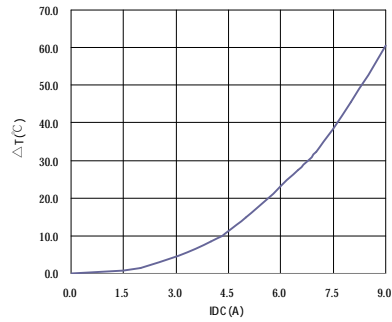
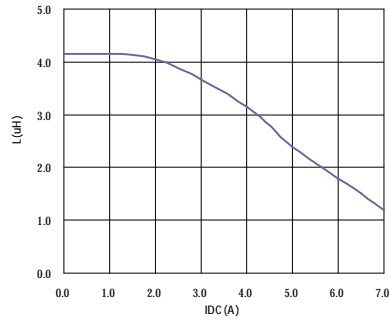
SPECIFICATION FOR APPROVAL

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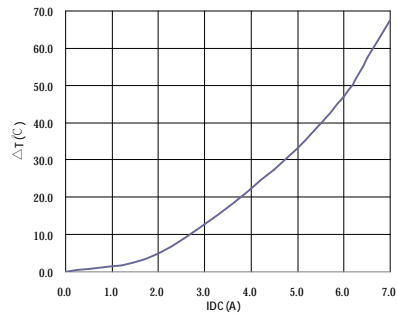
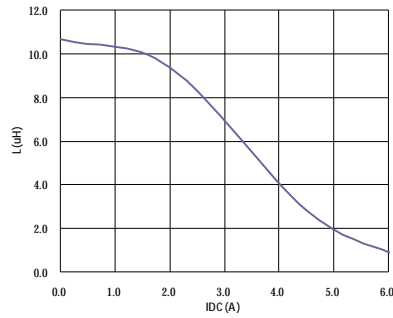
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	SU8058□□□□F□-□□□		
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V. Curve :

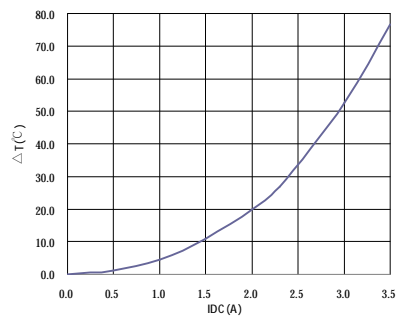
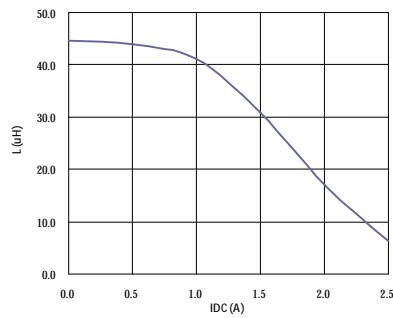
SU80583R9YF□



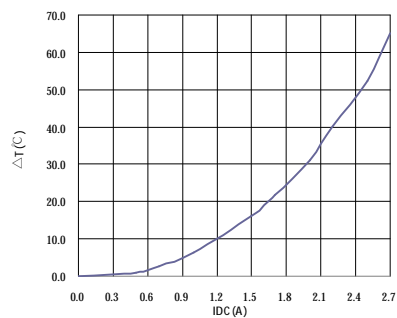
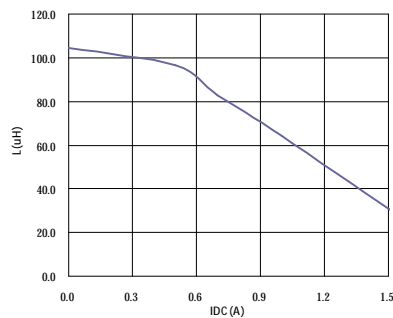
SU8058100YF□



SU8058470YF□



SU8058101YF□



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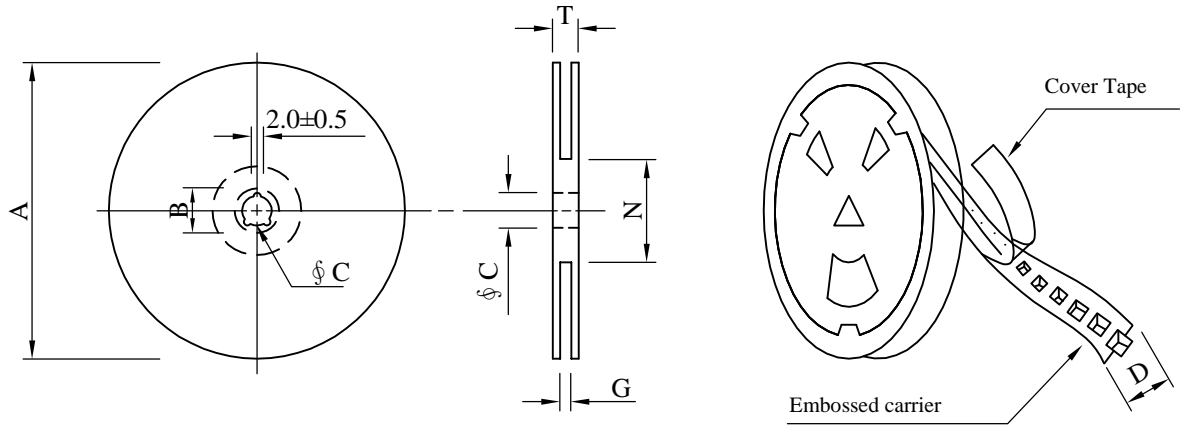
SPECIFICATION FOR APPROVAL

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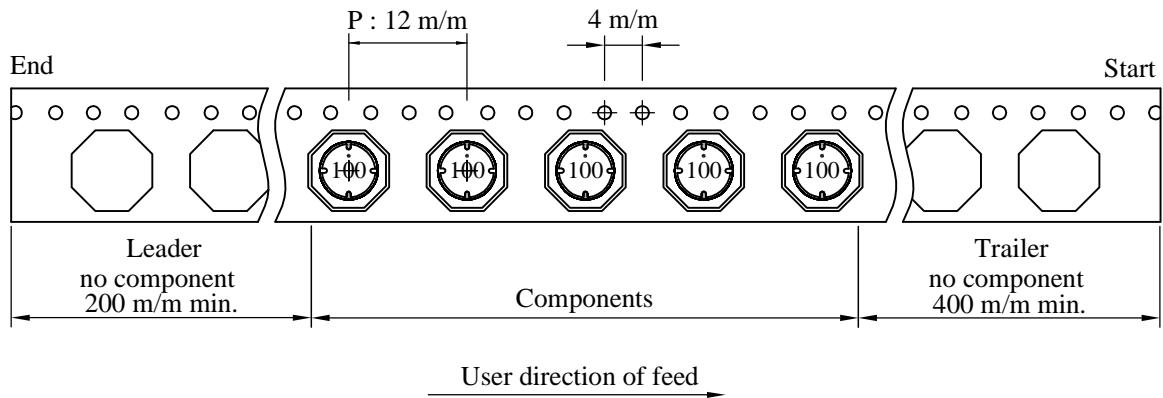
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VI . Packaging information :

(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 ⁺⁰	50 ⁻⁰	22.4

(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	800	1400	13 - 16	4,800	9.7	38 x 37 x 22

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SPECIFICATION FOR APPROVAL

REF. :

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VII . 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 apperance. 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 35% 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.

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