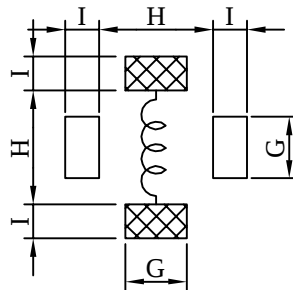
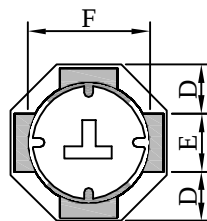
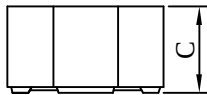
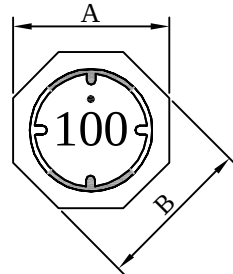


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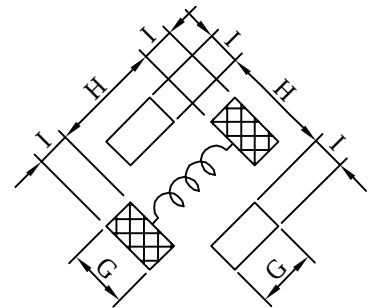
REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.		SU1050□□□□F□-□□□		
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I . Configuration and dimensions :



or



(PCB Pattern)

Unit : m/m

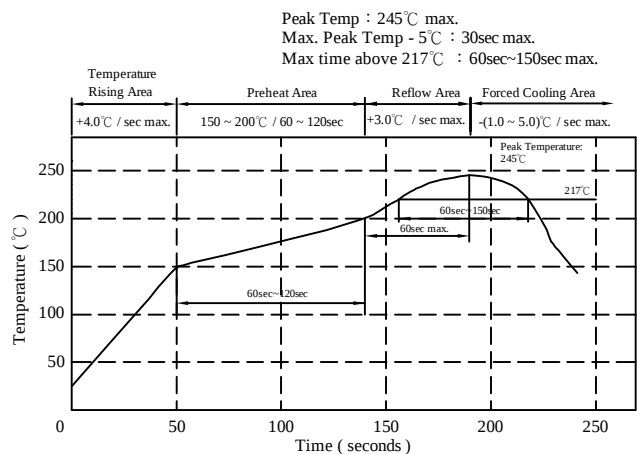
A	B	C	D	E	F	G	H	I
10.00 ±0.3	10.00 ±0.3	4.80 ±0.3	3.00 typ.	4.00 typ.	8.20 typ.	4.20 ref.	8.20 ref.	1.40 ref.

II . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : F 、 H class
- d . Product weight : 1.66 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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千如電子集團
 ABC ELECTRONICS GROUP

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REF. :

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IV . Electrical characteristics :

DWG No.	Inductance (μ H)	Q ref.	SRF (MHz) typ.	RDC (m Ω)		Irms (A) typ.	Isat (A) typ.
				typ.	max.		
SU10504R7YF□-□□□	4.7 $\pm$ 30%	13	34.0	14.5	19.0	5.20	5.10
SU1050100YF□-□□□	10.0 $\pm$ 30%	16	20.0	26.0	34.0	4.40	3.80
SU1050220YF□-□□□	22.0 $\pm$ 30%	16	10.0	58.0	76.0	2.90	2.70
SU1050330YF□-□□□	33.0 $\pm$ 30%	14	8.5	70.0	90.0	2.70	2.10
SU1050470YF□-□□□	47.0 $\pm$ 30%	14	7.0	100.0	130.0	2.10	1.80
SU1050680YF□-□□□	68.0 $\pm$ 30%	14	6.5	144.0	186.0	1.75	1.45
SU1050101YF□-□□□	100.0 $\pm$ 30%	16	5.0	198.0	260.0	1.50	1.25
SU1050151YF□-□□□	150.0 $\pm$ 30%	16	4.0	330.0	430.0	1.15	1.05
SU1050221YF□-□□□	220.0 $\pm$ 30%	14	3.5	470.0	610.0	0.95	0.88
SU1050331YF□-□□□	330.0 $\pm$ 30%	11	2.5	690.0	900.0	0.84	0.70
SU1050471YF□-□□□	470.0 $\pm$ 30%	11	1.9	1050.0	1350.0	0.65	0.55
SU1050681YF□-□□□	680.0 $\pm$ 30%	11	1.6	1350.0	1760.0	0.56	0.48
SU1050102YF□-□□□	1000.0 $\pm$ 30%	30	1.4	2120.0	2760.0	0.47	0.40

- 1). □: Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25℃
- 4). Inductance Test Freq. : 100KHz / 0.1V
- 5). Q Test Freq. : 4R7--7.96MHz , 100~680--2.52MHz , 101~681--0.796MHz , 102--0.252MHz
- 6). Isat base on Δ L / L0A=35% typ.
- 7). Irms base on Temp. rise 40℃ typ.



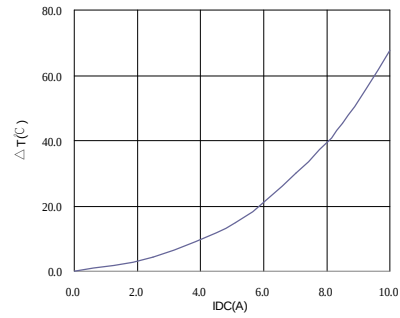
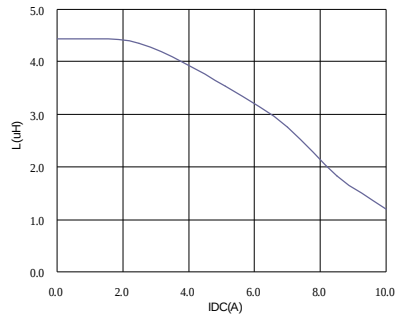
SPECIFICATION FOR APPROVAL

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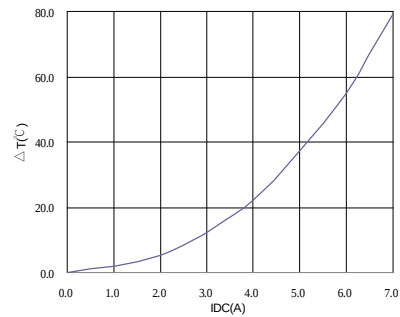
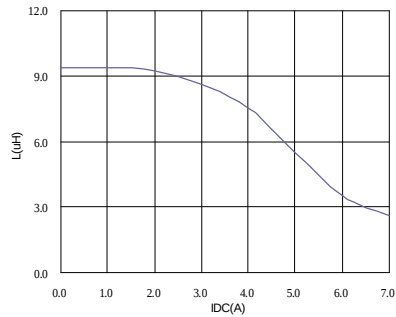
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.		SU1050□□□□F□-□□□		
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V . Curve :

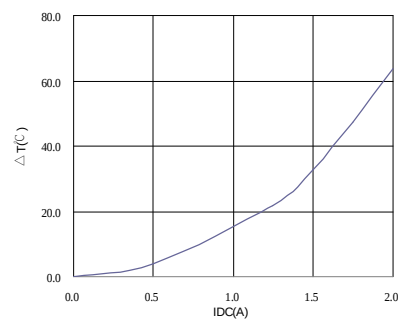
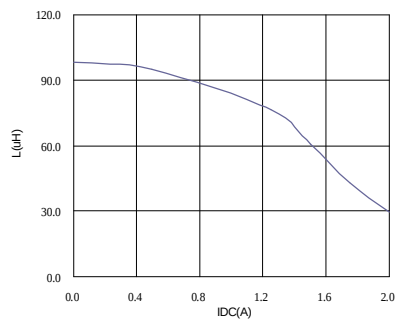
SU10504R7YF□



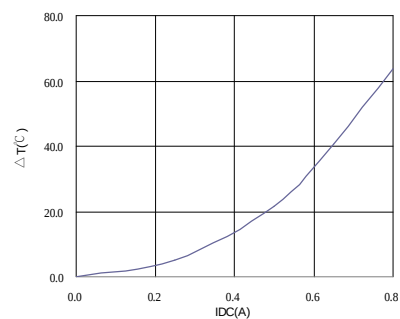
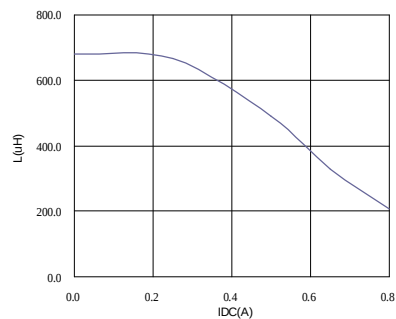
SU1050100YF□



SU1050101YF□



SU1050681YF□



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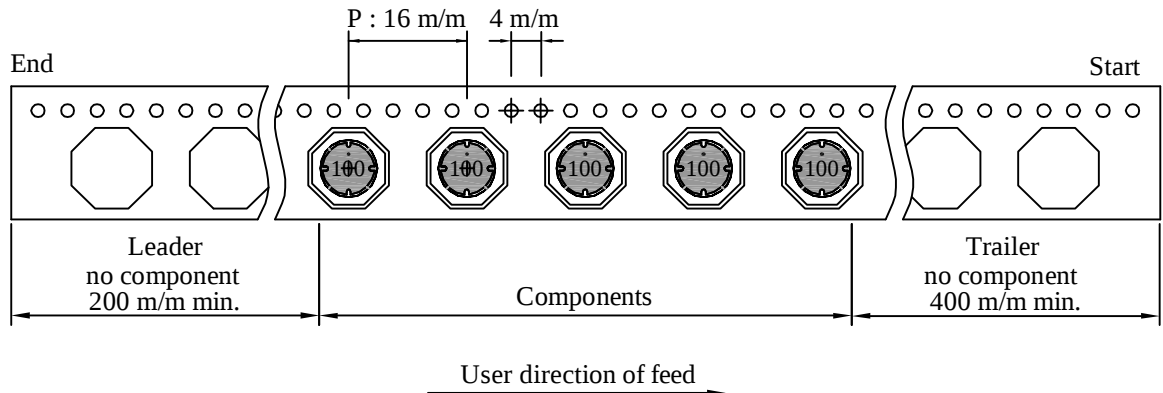
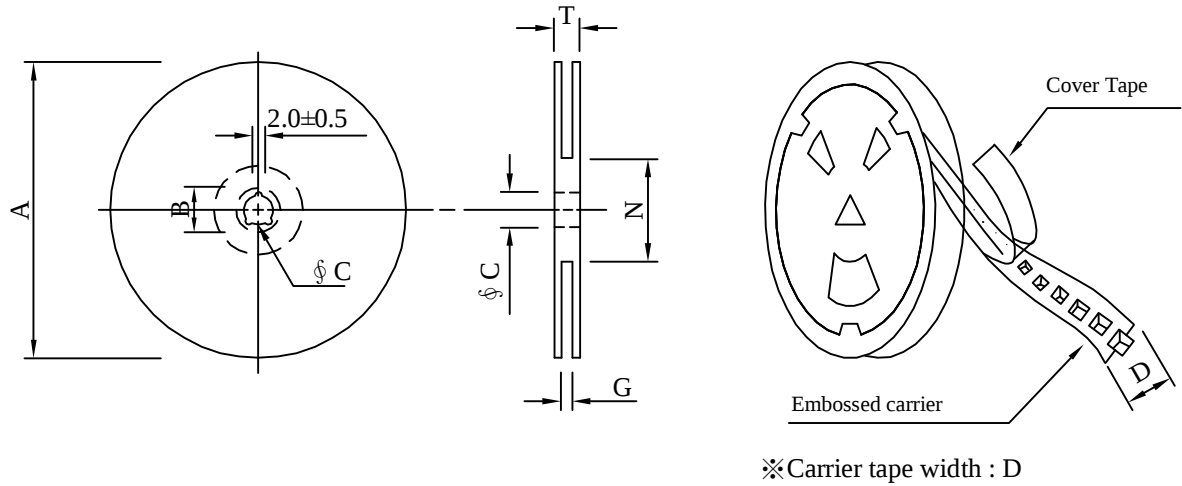
SPECIFICATION FOR APPROVAL

REF. :

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VI . Packaging information :

(1) Configuration



(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	700	1300	13 - 24	2,800	7.2	38 x 37 x 22

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SPECIFICATION FOR APPROVAL

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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.Time:96 hours.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.	
2.Temperature Cycling	JESD22 Method JA-104	1.Temperature: -40℃ ~ 125℃ 2.Number of cycle:96 cycle 3.Dwell time:30 minutes		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.	
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature: 85±5 ℃ 2.Time:96 Hours 3.Humidity: 85±5% RH.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.	
4.Operational Life	MIL-PRF-27	1.Temperature: 125℃ 2.Time:96 hours. 3.Apply rated current.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.	
5.Exeternal Visual	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 Method JB-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 therr cycles.		1.No body change in apperaranace. 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 and electrical damage. 2.Inductance shall not change more than ±20%.	
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210	1.Highest temperature : 245±5℃ 2.Time (temp. ≥ 217℃) : 60~150 Second. 3.IR reflow times : 3 times.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.	
10.Rated current	MIL-STD-202 Method 330	Apply rated current for 5 second.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.	
11.Temperature rise	MIL-PRF-27	Apply rated current for 10 minutes.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.	
12.Over load	MIL-PRF-27	Apply twice as rated current for 5 minutes. (It's not application to some special design)		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.	
13.Solderability Test	J-STD-002	1.Baking in pre-testing : 155±5℃ / 16Hours±30 min. 2.Peak temperature : 240±5℃ 3.Time (temp. ≥ 217℃) : 60~150 second. 4.IR reflow times : 1 times.		The terminal shall be at least 95% covered with fresh solder.	
14.Electrical Characteriazation	User Spec.	1.Operating temperature : -40℃~125℃ 2.Room temperature : 25℃.		1.No mechanical and electrical damage. 2.Inductance shall not change more than ±20%.	
15.Withstanding Voltage Test	MIL-STD-202 Method 201	1.DV:500V 2.Time:1minutes		1.During the test no breakdown. 2.The characteristic is normal after test.	
16.Drop	JESD22-B111	Packaged & Drop down from 1m.In 1 angle 1ridges & 2 surfaces orientation.		1.No case deformation or change in appearance. 2.Inductance shall not change more than ±20%.	
17.Terminal Strength Test	JIS-C-6429	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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