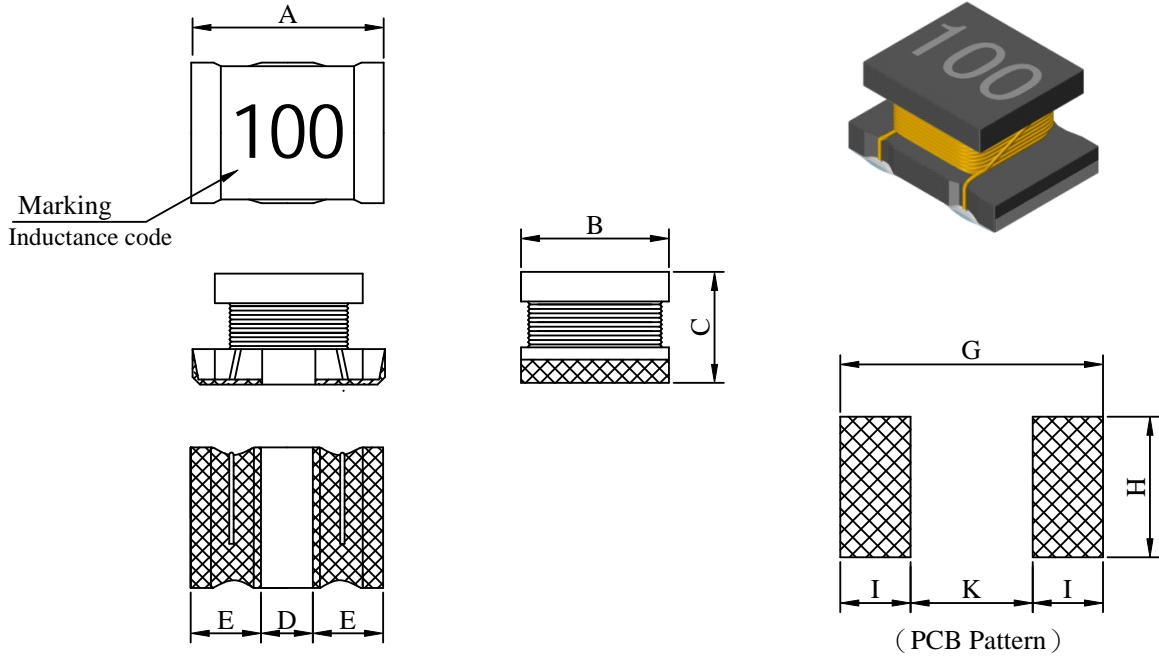


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REF. :

PROD. NAME	SMD Power Inductor	ABC'S DWG NO.	SQ4532□□□□3□-□□□		
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I . Configuration and dimensions :



Unit : mm

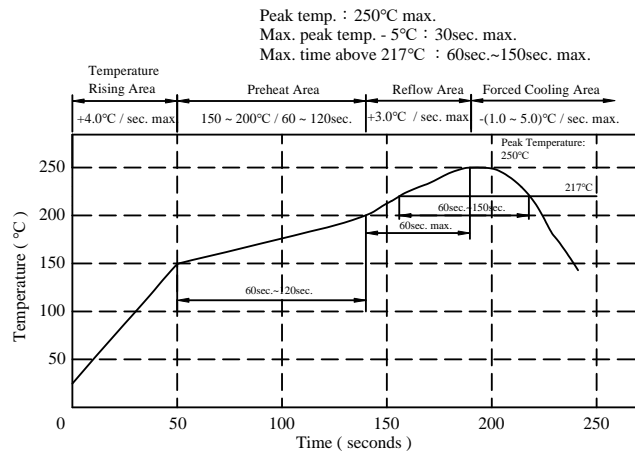
A	B	C	D	E	G	H	I	K
4.50 ±0.3	3.20 ±0.3	2.60 ±0.4	1.30 typ.	1.60 ref.	5.40 ref.	3.60 ref.	2.00 ref.	1.40 ref.

II . Description :

- a . Ferrite drum core construction
- b . Enamelled copper wire : H class
- c . Product weight : 0.129 g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free

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 : 250°C.10 sec.



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IV . Electrical characteristics :

DWG. No.	Inductance (μ H)	Test Freq. (Hz) L	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
SQ45321R0M3□-□□□	1.00±20%	1M	100.0	0.08	1080
SQ45321R5M3□-□□□	1.50±20%	1M	85.0	0.09	1000
SQ45322R2M3□-□□□	2.20±20%	1M	60.0	0.11	900
SQ45323R3M3□-□□□	3.30±20%	1M	47.0	0.13	800
SQ45324R7M3□-□□□	4.70±20%	1M	35.0	0.15	750
SQ45326R8M3□-□□□	6.80±20%	1M	30.0	0.20	720
SQ4532100K3□-□□□	10.00±10%	1M	23.0	0.24	650
SQ4532150K3□-□□□	15.00±10%	1M	20.0	0.32	570
SQ4532220K3□-□□□	22.00±10%	1M	15.0	0.60	420
SQ4532330K3□-□□□	33.00±10%	1M	12.0	1.00	310
SQ4532470K3□-□□□	47.00±10%	1M	10.0	1.10	280
SQ4532680K3□-□□□	68.00±10%	1M	8.4	1.70	220
SQ4532101K3□-□□□	100.00±10%	1M	6.8	2.20	190
SQ4532151K3□-□□□	150.00±10%	1M	5.5	3.50	130
SQ4532221K3□-□□□	220.00±10%	1M	4.5	4.00	110
SQ4532331K3□-□□□	330.00±10%	1M	3.6	6.80	100
SQ4532471K3□-□□□	470.00±10%	1M	3.0	8.50	90

- 1). Electrical specifications at 25°C
- 2). IDC base on Temp. rise 20°C max. & Δ L/L0A=10% max.

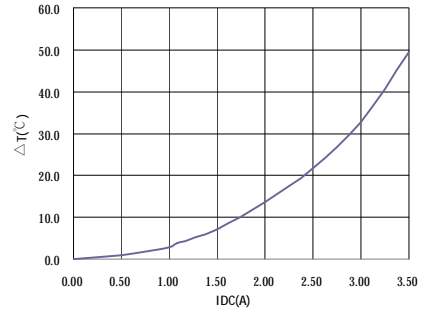
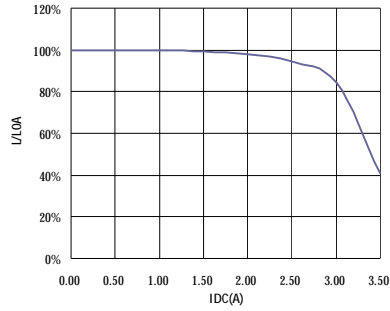
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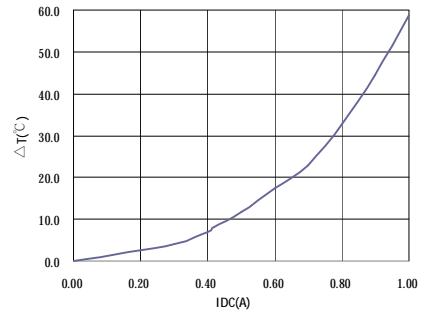
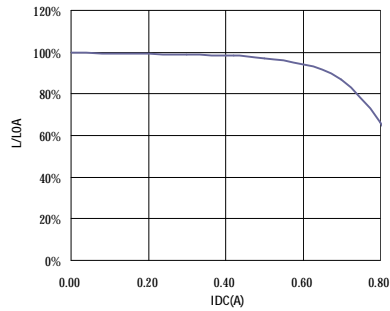
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V . Curve :

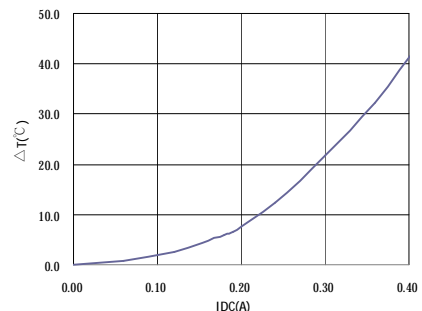
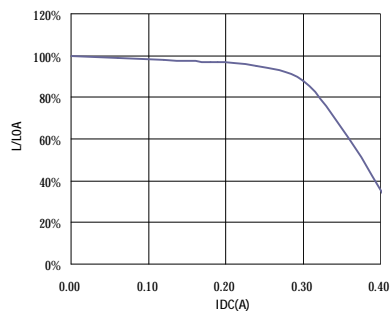
SQ45321R0M3□



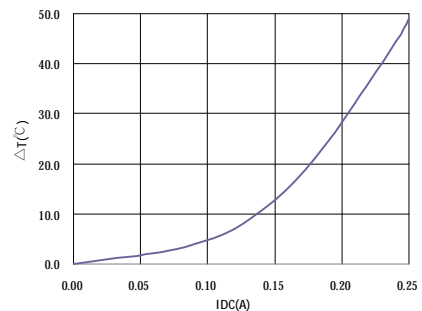
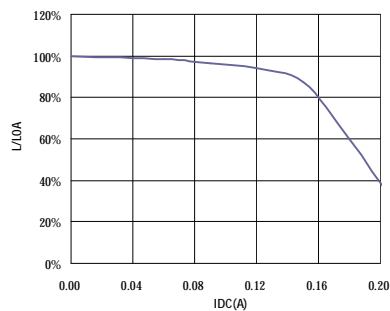
SQ4532220K3□



SQ4532101K3□



SQ4532471K3□



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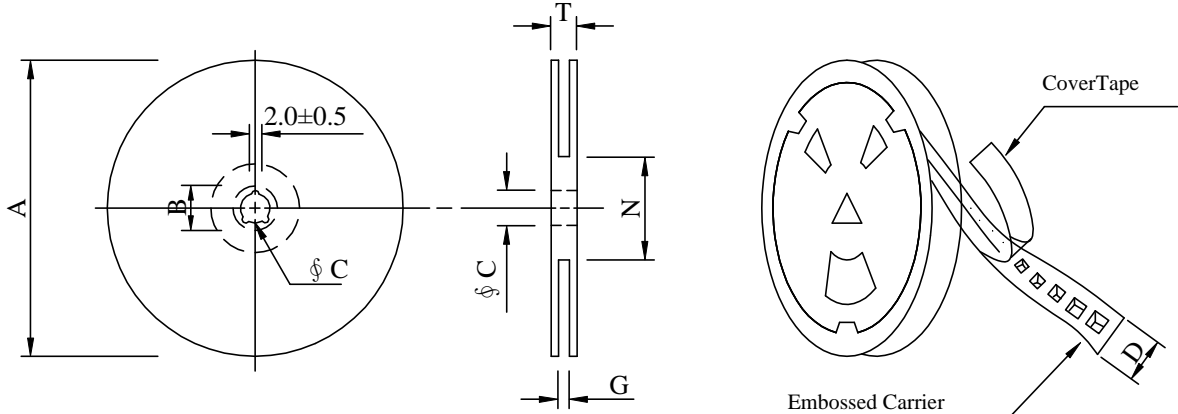
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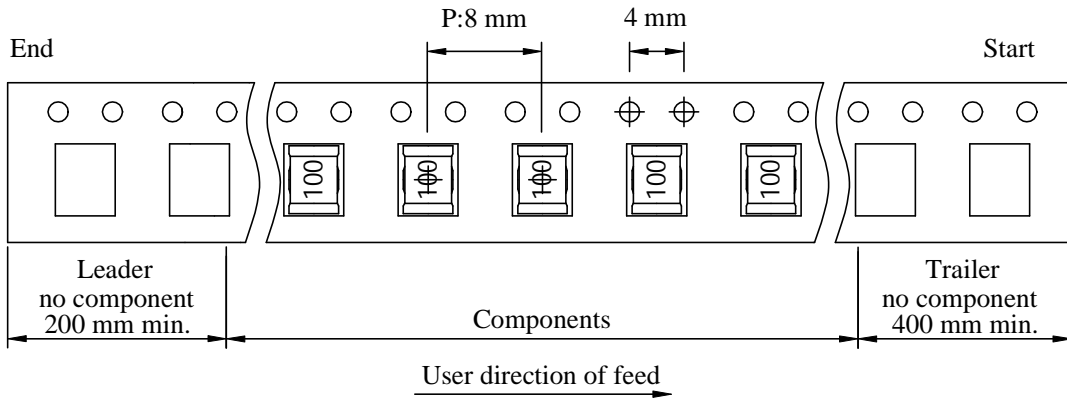
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VI . Packaging information :

(1) Configuration



※Carrier Tape Width : D



(2) Dimensions

Unit:mm

Style	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13	12	14 ⁺⁰	50 ⁻⁰	16.5
13 - 12	330	21±0.8	13±0.5	12	14 ⁺⁰	50 ⁻⁰	18.4

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

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (g)	Style	Q'TY (pcs)	G.W. (kg)	SIZE (cm)
B	500	130	07 - 12	20,000	7.20	42 x 41 x 24
C	2,000	540	13 - 12	16,000	6.50	38 x 37 x 22

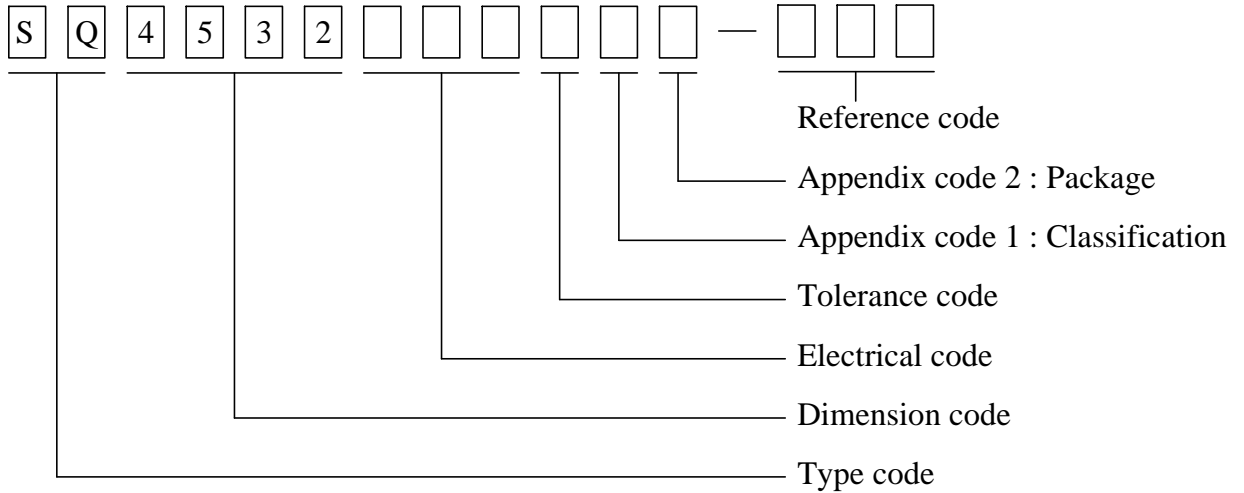
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VII . Drawing number expression :



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	500 pcs	
C	T/R (Reel package)	UCT	Antistatic	Antistatic	2,000 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°C 2.Time:96±2 hours.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
2.Temperature Cycling	JESD22-A 104	1.Temperature: -40°C ~ +125°C 2.Number of cycle:100 cycle 3.Dwell time:30 minutes	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature : 85±2 °C 2.Humidity: 85% RH. 3.Time:96±2 Hours	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
4.Operational Life	JESD22-A 108	1.Temperature: 125°C(Temp. rise included) 2.Time:96±2 hours. 3.Rated current	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
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 apperarence. 2.No marking blurred. 3.Inductance shall not change more than ±10%.
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 ±10%.
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210 & J-STD020D.1	1.Highest temperature : 250±5°C 2.Time (temp.≥ 217°C) : 60~150 Second. 3.IR reflow times : 3 times.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
10.Saturation Current	JIS C 6436 & User SPEC.	1.Applied rated current for 5 second. 2.Saturation current	Inductance shall not drop more than 10% max.
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 20°C max.
13.Solderability Test	J-STD-002 & JESD22-B 102	1.Baking in pre-testing : 150±5°C / 16Hours±30 min. 2.Peak temperature : 240±5°C 3.Time (temp.≥ 217°C) : 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°C~125°C 2.Room temperature : 25°C.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
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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