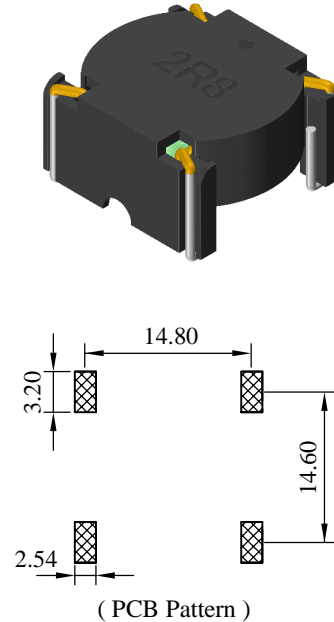
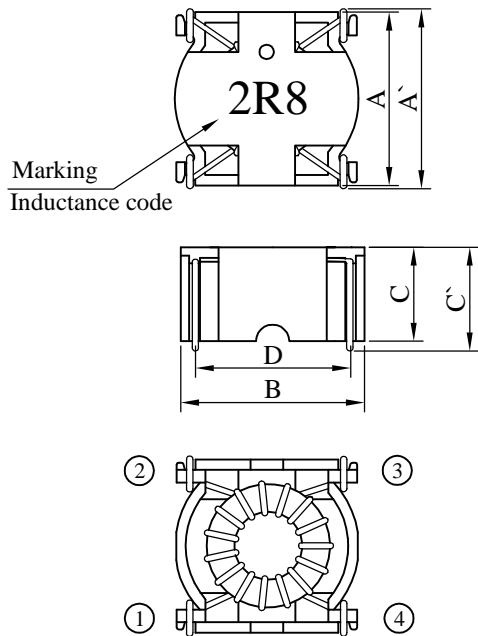


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Toroidal Power Filter	ABC'S DWG NO.	ST1711□□□□L□-□□□		
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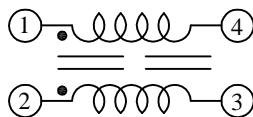
I . Configuration and dimensions :



Unit : m/m

A	A'	B	C	C'	D
16.50 ±0.40	17.80 max.	17.30 ±0.40	9.12 typ.	10.50 max.	14.80 typ.

II . Schematic diagram :

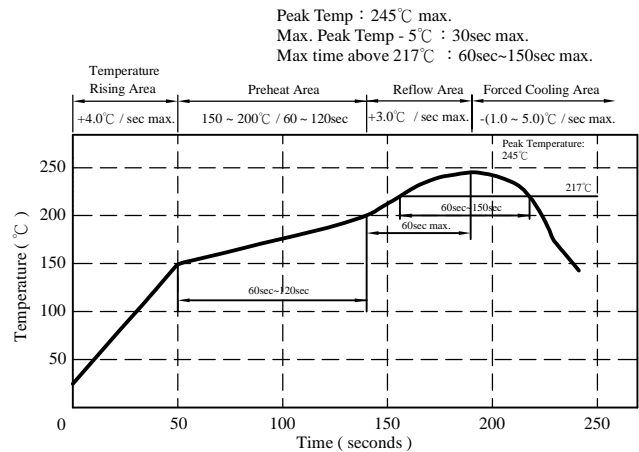


III . Description :

- a . Iron toroidal core construction.
- b . Enamelled copper wire : F class
- c . Product weight : 5.40 g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free available

IV . 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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SPECIFICATION FOR APPROVAL

REF. :

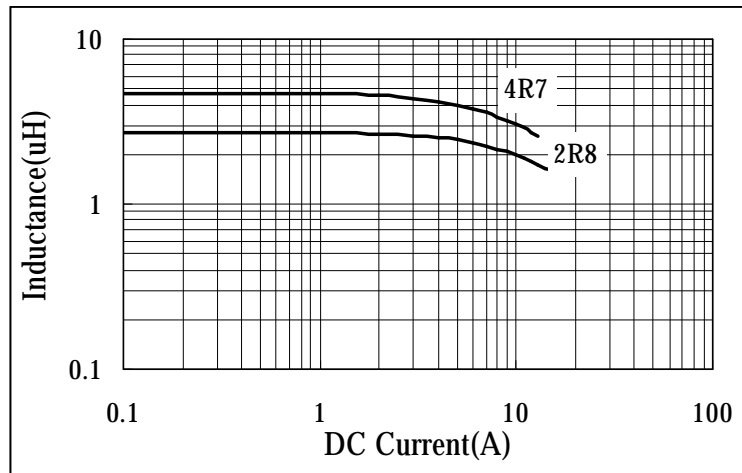
PROD. NAME	SMD Toroidal Power Filter	ABC'S DWG NO.	ST1711□□□□L□-□□□		
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V . Electrical characteristics :

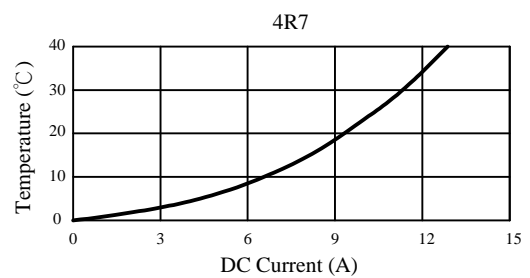
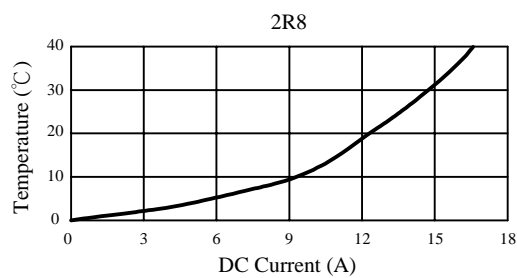
DWG No.	Inductance @10kHz, 0.1 Vrms (μH)	RDC(mΩ) (Each Winding)		I _{rms} (A) typ.	I _{sat} (A) typ.
		max.	typ.		
ST17112R8ML□-□□□	2.8 ± 20%	9.30	7.10	16.50	14.40
ST17114R7ML□-□□□	4.7 ± 20%	14.50	11.50	12.80	11.60

- 1). □ : Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). I_{rms} base on Temp. rise 40°C typ.
- 5). I_{sat} base on ΔL/L0A=40% typ.

@ Inductance VS. DC Superposition Characteristics



@ DC Current VS Temperature Rise



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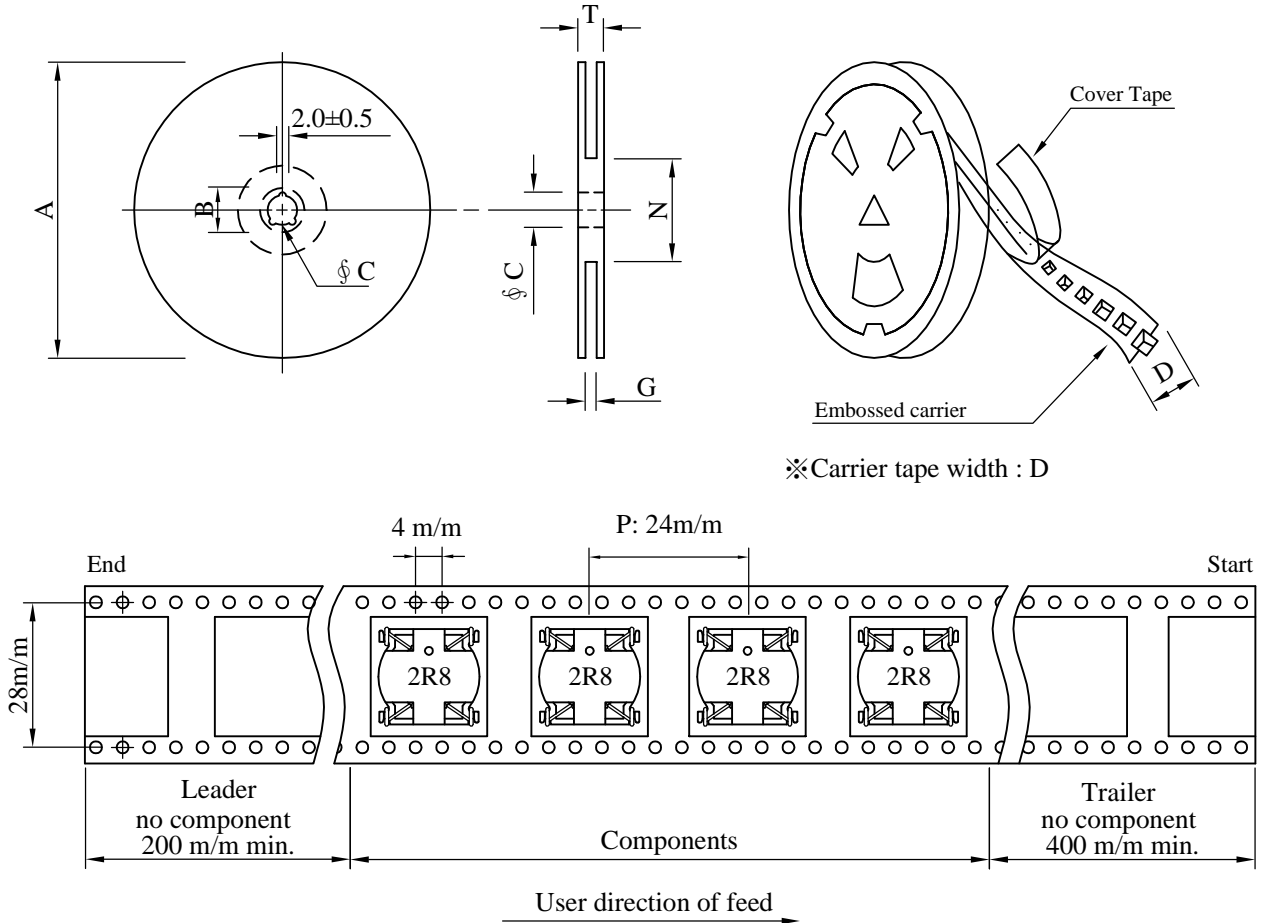
SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Toroidal Power Filter	ABC'S DWG NO.		ST1711□□□□L□-□□□	
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VI . Packaging information :

(1) Configuration



(2) Dimensions : (m/m)

Style	A	B	C	D	G	N	T
13 - 32	330	21±0.8	13±0.5	32	34 ⁺⁰	100 ⁻⁰	38.4

(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	200	900	13 - 32	800	5.2	38 x 37 x 22

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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Toroidal Power Filter	ABC'S DWG NO.	ST1711□□□□L□-□□□	
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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°C 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°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 ±20%.
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 ±20%.
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 ±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 appearance. 2.No marking blurred. 3.Inductance shall not change more than ±20%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitud : 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°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 ±20%.
10.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
11.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°C typ.
12.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.
13.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 ±20%.
14.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.
15.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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