SMD POWER INDUCTORS

SSC0402 SERIES

1. PART NO. EXPRESSION :

S S C 0 4 0 2 1 R 0 Y Z F

(a) (b) (c) (d)(e)(f)

(a) Series code

(b) Dimension code

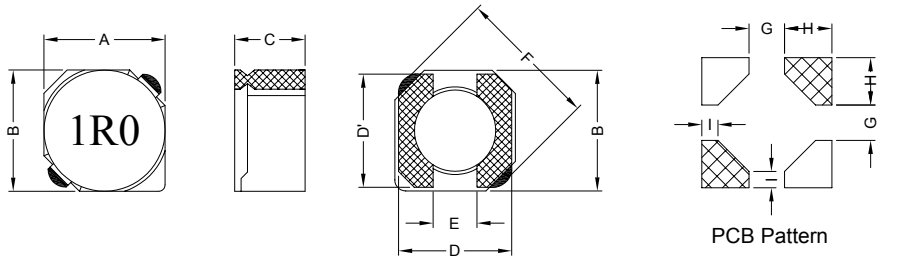
(c) Inductance code : 1R0 = 1.0uH

(d) Tolerance code : Y = ±30%

(e) X, Y, Z : Standard part

(f) F : Lead Free

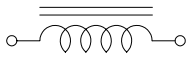
2. CONFIGURATION & DIMENSIONS :



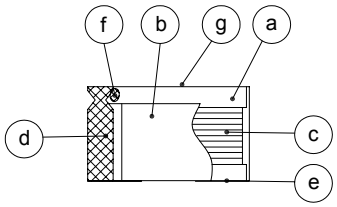
Unit : m/m

A	B	C	D	D'	E	F	G	H	I
4.70±0.3	4.70±0.3	2.00 Max.	4.50 Ref.	4.50 Ref.	1.50 Ref.	6.90 Max.	1.70 Ref.	1.80 Ref.	0.80 Ref.

3. SCHEMATIC :



4. MATERIALS :



(a) Core : DR Ferrite Core

(b) Core : RI Ferrite Core

(c) Wire : Enamelled Copper Wire

(d) Terminal : Au+Ni Copper Plate

(e) Adhesive : Epoxy

(f) Adhesive : Epoxy

(g) Ink : Bon Margue

5. GENERAL SPECIFICATION :

a) Temp. rise : 40°C Max. at rated current

b) Rated current : Base on temp. rise & ΔL/L0A = 35% Max.

c) Storage temp. : -40°C to +125°C

d) Operating temp. : -40°C to +85°C

e) Resistance to solder heat : 260°C.10 secs

Pb

RoHS Compliant

NOTE : Specifications subject to change without notice. Please check our website for latest information.

05.08.2008

6. ELECTRICAL CHARACTERISTICS :

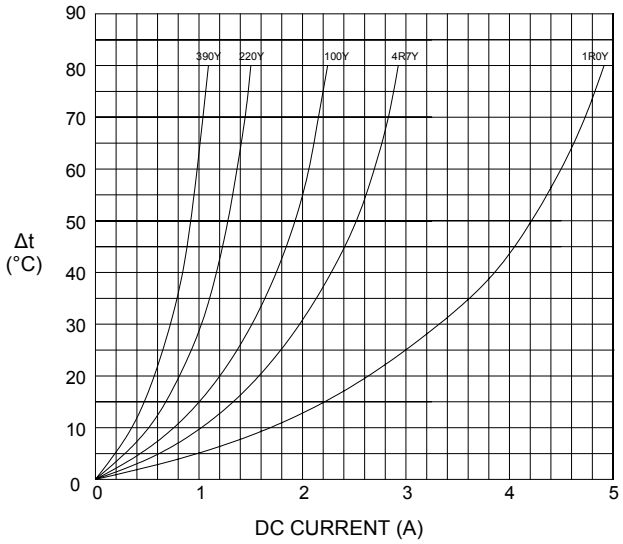
Part No.	Inductance (μH)	Test Frequency (Hz)	RDC (mΩ) Max.	IDC (A) Max.
SSC04021R0YZF	1.0 ±30%	0.5V / 7.96 M	45	1.72
SSC04022R2YZF	2.2 ±30%	0.5V / 7.96 M	75	1.32
SSC04022R7YZF	2.7 ±30%	0.5V / 7.96 M	105	1.28
SSC04023R3YZF	3.3 ±30%	0.5V / 7.96 M	110	1.04
SSC04023R9YZF	3.9 ±30%	0.5V / 7.96 M	155	0.88
SSC04024R7YZF	4.7 ±30%	0.5V / 7.96 M	162	0.84
SSC04025R6YZF	5.6 ±30%	0.5V / 7.96 M	170	0.80
SSC04026R8YZF	6.8 ±30%	0.5V / 7.96 M	180	0.76
SSC04028R2YZF	8.2 ±30%	0.5V / 7.96 M	190	0.68
SSC0402100YZF	10.0 ±30%	0.5V / 100 K	200	0.61
SSC0402120YZF	12.0 ±30%	0.5V / 100 K	210	0.56
SSC0402150YZF	15.0 ±30%	0.5V / 100 K	240	0.50
SSC0402180YZF	18.0 ±30%	0.5V / 100 K	338	0.48
SSC0402220YZF	22.0 ±30%	0.5V / 100 K	397	0.41
SSC0402270YZF	27.0 ±30%	0.5V / 100 K	441	0.35
SSC0402330YZF	33.0 ±30%	0.5V / 100 K	694	0.32
SSC0402390YZF	39.0 ±30%	0.5V / 100 K	709	0.30

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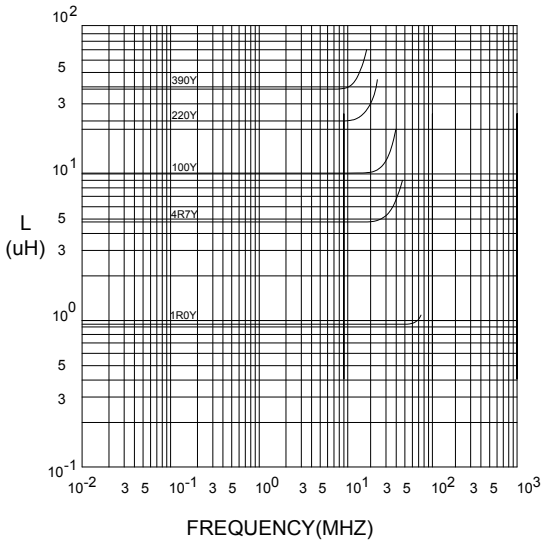
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7. CHARACTERISTICS CURVES :

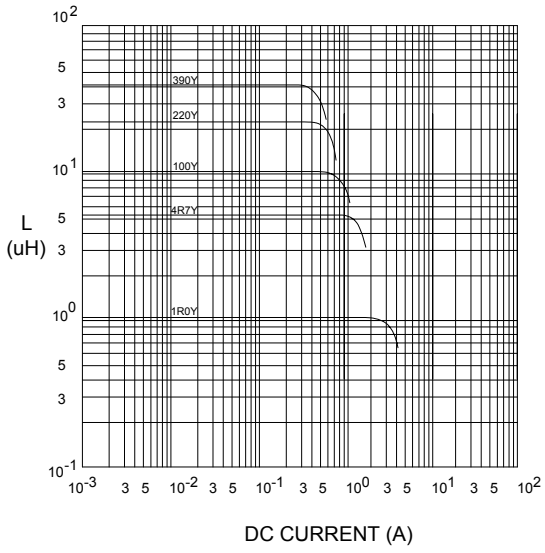
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



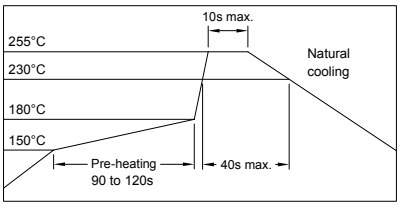
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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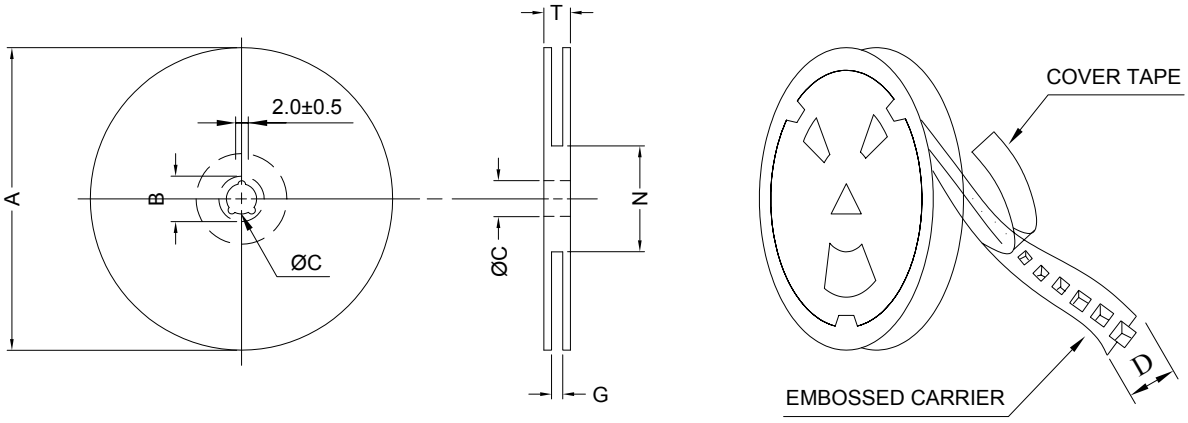
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RECOMMENDED SOLDERING CONDITIONS
REFLOW SOLDERINGS

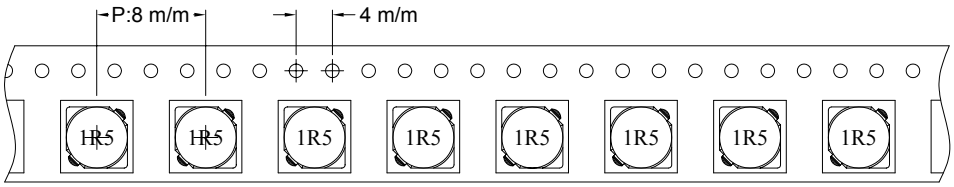


8. PACKAGING INFORMATION :

(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	16	18 $^{+0}$	50 $^{-0}$	22.4

(3) Q'TY & G.W. PER PACKAGE

SERIES	INNER : REEL			OUTER : CARTON		
	Q'TY (PCS)	G.W. (gw)	STYLE	Q'TY (PCS)	G.W. (Kg)	SIZE (cm)
SSC0402	3000	2550	13-16	18000	18.8	40 x 40 x 24

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9. RELIABILTY AND TEST CONDITION :

TEST ITEM	SPECIFICATION	TEST CONDITION
SOLDERABILITY	MORE THAN 90% OF THE TERMINAL ELECTRODE SHALL BE COVERED WITH FRESH SOLDER.	PREHEAT : 125±25°C FOR 60 SECONDS SOLDER : 99%Sn/0.3Ag/0.7%Cu OR EQUIVALENT SOLDER TEMP. : 245±5°C FLUX : ROSIN DIP TIME : 4±1 SECONDS
THERMAL SHOCK TEST (TEMP. CYCLE)	INDUCTANCE SHALL NOT CHANGE MORE THAN ±20%	ROOM TEMP. → -25±2°C 15 MINUTES — 30 MINUTES ROOM TEMP. → 85±2°C 15 MINUTES — 30 MINUTES TOTAL : 50 CYCLES
HUMIDITY RESISTANCE TEST		TEMPERATURE : 40±2°C HUMIDITY : 90 ~ 95% APPLIED CURRENT : PER SPEC. TIME : 500 HOURS
HIGH TEMP. RESISTANCE TEST		TEMPERATURE : 85±2°C APPLIED CURRENT : PER SPEC. TIME : 500 HOURS

10. UL CARD :

OBMW2 **November 30, 2000**
Magnet Wire - Component

PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD **E201757**
607 BAOLONG INDUSTRIAL ESTATE LONGGANG, SHENZHEN
GUANGDONG CHINA

	Coating Type		ANSI	
Mtl Dsg	BC	TC	Type	TI
UEW/U	**Polyurethane**	—	—	**130**
PEW/U	**Polyester**	—	**MW5-C**	**155°C**
PEWH/U	**Modified Polyester**	—	**MW30-C**	**180**
PEW-NY/U	**Polyester**	**Polyamide**	**MW24-C**	**155**
HAI/U	**Polyester(Amide)(Imide)**	**Polyamideimide**	**MW35,73**	**200**
UEW-NY/U	**Polyurethane**	**Polyamide**	**MW80-C**	**155**
			MW28-C	**130**

Marking: Company name and material designation or marked designation on package or reel, and Recognized Component Mark.

See General Information Preceding These Recognitions

1/3/2001 **Underwriters Laboratories Inc.** **Card 1 of 2**

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