SPC3015FT SERIES

1. PART NO. EXPRESSION:

SPC3015FT-R68NZF

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

(a) Series code

(f) T-1--

(e) Inductance code : R68 = 0.68uH

(b) Dimension code

(f) Tolerance code : M = $\pm 20\%$, N = $\pm 30\%$

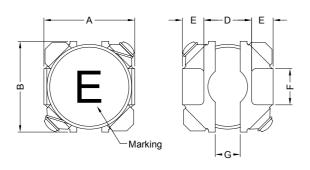
(c) Powder coating type

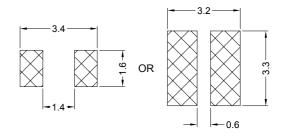
(g) Z : Standard part

(d) Taping package

(h) F: RoHS Compliant

2. CONFIGURATION & DIMENSIONS:







Recommended PCB Pattern

Unit:m/m

Α	В	С	D	Е	F	G
3.0±0.2	2.9±0.2	1.5 Max.	1.5 Typ.	0.76 Typ.	1.2 Typ.	0.7 Typ.

3. MATERIALS:

(a) Core : Ferrite

(b) Wire : Polyurethane Enamelled Copper Wire

(c) Terminal Clip: C5191(d) Adhesive: Epoxy

(e) Coating : Powder Coating

(f) Ink: 70000-00101



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30.12.2009



PG. 1

SPC3015FT SERIES

4. GENERAL SPECIFICATION:

a) IDC1 : Based on inductance change $\,$ ($\Delta L/Lo: \underline{\leq} 30\%$) @ ambient temp. 25°C

b) IDC2 : Based on temperature rise $(\Delta T: 40^{\circ}C \text{ Typ.})$

c) Rated Current : IDC1 or IDC2, whichever value is lower

d) Storage temp. : -40°C to +105°C

e) Operating temp. : -40°C to +105°C $\,$ (include self temp. rise $\,$)

f) Resistance to solder heat: 260°C 10secs

5. ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Tolerance	Test Frequency (Hz)	RDC (mΩ) ±20%	IDC1 (A)	IDC2 (A)	Marking
SPC3015FT-R68 ZF	0.68	N	0.1V/100K	38	3.40	2.00	8
SPC3015FT-1R0 ZF	1.0	N	0.1V/100K	44	3.00	1.85	А
SPC3015FT-1R2 ZF	1.2	N	0.1V/100K	55	2.50	1.70	В
SPC3015FT-1R5 ZF	1.5	N	0.1V/100K	71	2.20	1.55	С
SPC3015FT-1R8 ZF	1.8	N	0.1V/100K	79	2.00	1.45	D
SPC3015FT-2R2 ZF	2.2	M, N	0.1V/100K	99	1.90	1.35	Е
SPC3015FT-2R7 ZF	2.7	M, N	0.1V/100K	110	1.70	1.30	F
SPC3015FT-3R3 ZF	3.3	M, N	0.1V/100K	120	1.60	1.25	G
SPC3015FT-4R7 ZF	4.7	М	0.1V/100K	180	1.30	1.05	I
SPC3015FT-5R6 ZF	5.6	М	0.1V/100K	200	1.20	1.00	J
SPC3015FT-6R8 ZF	6.8	М	0.1V/100K	220	1.10	0.95	К
SPC3015FT-100 ZF	10	М	0.1V/100K	330	0.95	0.75	М
SPC3015FT-150 ZF	15	М	0.1V/100K	540	0.70	0.60	0
SPC3015FT-220 ZF	22	М	0.1V/100K	780	0.65	0.42	Q
SPC3015FT-470 ZF	47	М	0.1V/100K	1680	0.40	0.26	U

Tolerance code : $M = \pm 20\%$ $N = \pm 30\%$



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6. RELIABILITY & TEST CONDITION:

ITEM	PERFORMANCE	TEST CONDITION		
Mechanical				
Substrate bending	ΔL/Lo≦±10% There shall be no mechanical damage or electrical damage.	The sample shall be soldered onto the printed circuit board in figure 1 and a load applied until the figure in the arrow direction is made approximately 3mm.(keep time 30 secs) 100 04.5 t = 1.6 20 Bending test board PRESSURE ROD figure-1		
Vibration	ΔL/Lo≦±10% There shall be no mechanical damage.	The sample shall be soldered onto the printed circuit board and when a vibration having an amplitude of 1.52mm and a frequency of from 10 to 55Hz/1 minute repeated should be applied to the 3 directions (X,Y,Z) for 2 hours each. (A total of 6 hours)		
Solderability	New solder More than 90%	Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated over the whole of the sample before hard, the sample shall then be preheated for about 2 minutes in a temperature of 130~150°C and after it has been immersed to a depth 0.5mm below for 3±0.2 seconds fully in molten solder M705 with a temperature of 245±5°C. More than 90% of the electrode sections shall be cowered with new solder smoothly when the sample is taken out of the solder bath.		
Resistance to Soldering heat (reflow soldering)	There shall be no damage or problems.	Soldering (Peak temperature 260±3°C 10sec) 200 30 sec Min. (230°C Max.) Pre-heating Slow cooling (Stored at room temperature) 2 min. 10 2 min. or more		
		The specimen shall be passed through the reflow oven with the condition shown in the above profile for 1 time. The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made.		

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SPC3015FT SERIES

6. RELIABILITY & TEST CONDITION:

ITEM	PERFORMANCE	TEST CONDITION				
Electrical Characteristics Test						
Dielectric withstand voltage	There shall be no damage or problems.	AC 100V voltage shall be applied for 1 minute across the top surface and the terminal of this sample				
Temperature characteristics	ΔL/L20°C≦±10% 0~2000 ppm/°C	The test shall be performed after the sample has stabilized in an ambient temperature of -20 to +85°C, and the value calculated based on the value applicable in a normal temperature and normal humidity shall be ΔL/L20°C≤±100.				
High temperature storage	ΔL/Lo≦±10% There shall be no mechanical damage.	The sample shall be left for 96±4 hours in an atmosphere with a temperature of 85±2°C and a normal humidity. Upon completion of the measurement shall be made after the sample has been left in a normal temperature and normal humidity for 1 hour.				
Low temperature storage	ΔL/Lo≦±10% There shall be no mechanical damage.	The sample shall be left for 96±4 hours in an atmosphere with a temperature of -25±3°C. Upon completion of the test, the measurement shall be made after the sample has been left in a normal temperature and normal humidity for 1 hour.				
Change of temperature	ΔL/Lo≦±10% There shall be no other damage of problems	The sample shall be subject to 5 continuous cycles, such a shown in the table 2 below and then it shall be subjected to standard atmospheric conditions for 1 hour, after which measurement shall be made.				
		Temperature Duration				
		-25±3°C 1 (Thermostat No.1) 30 min.				
		Standard 5 sec. or less 2 atmospheric No.1→No.2				
		85±2°C 3 (Thermostat No.2) 30 min.				
		4 Standard 5 sec. or less No.2—No.1				
Moisture storage	ΔL/Lo≦±10% There shall be no mechanical damage.	The sample shall be left for 96±4 hours in a temperature of 40±2°C and a humidity(RH) of 90~95%. Upon completion of the test, the measurement shall be made after the sample has been left in a normal temperature and normal humidity more than 1 hour.				



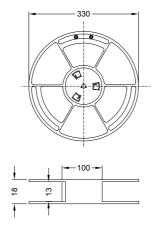
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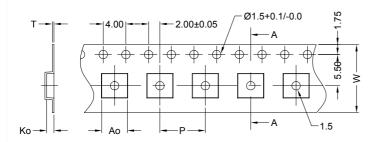
7. PACKAGING INFORMATION:

7-1. Reel Dimension (mm)



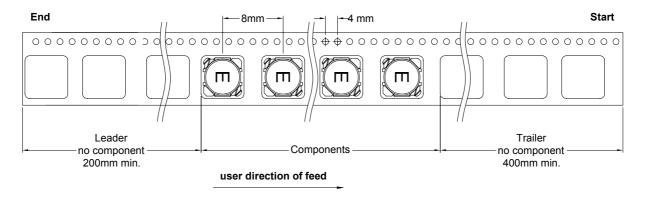


7-2 CARRIER TAPE DIMENSIONS (mm)



Ao	Во	Ko	W	Р	Т
3.5mm	3.2mm	1.9mm	12mm	8.0mm	0.3mm

7-3 TAPING DIMENSIONS (mm)



7-4 QUANTITY

3000pcs/Ree

The products are packaged so that no damage will be sustained.



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