

Features:

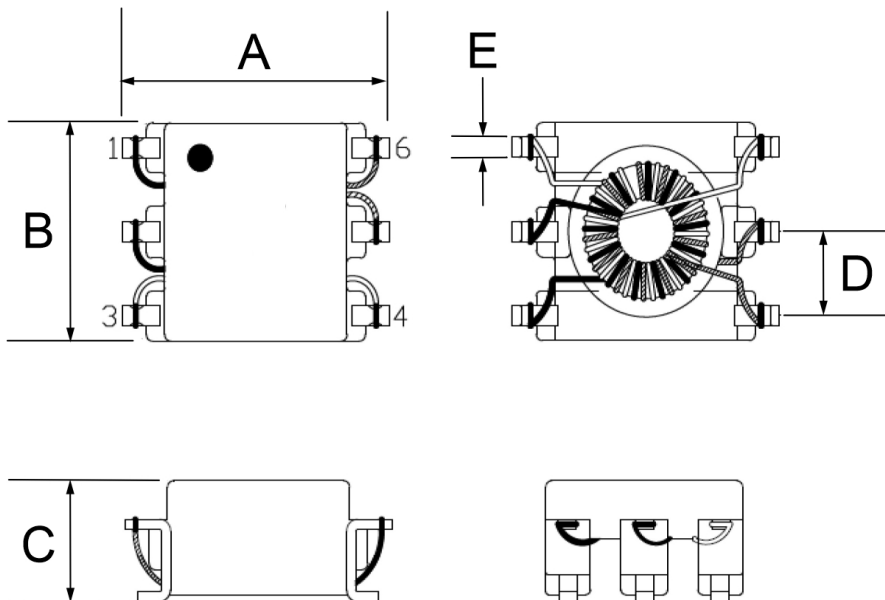
- Surface Mount Device
- Low Profile Design
- Dielectric Strength: 1.5kVrms. (2Sec)
- Designed to match OWTC-A0285
- Lead free
- RoHS Compliant
- UL Approved Materials



Description

The VTX-513-8904-301 is a SMD Power Inductor with 3 individual windings which can be configured separately. This device features a small footprint area of 8.8x 6.5mm and seated height of 4.0mm Max. The SMD Power Inductor is a direct replacement for the OWTC-A0285 SMD Power Inductor

Technical Drawing



ID	Dim (mm)
A	8.8 ±0.5
B	6.5 ±0.5
C	4.0 Max
D	2.5 ±0.5
E	0.60Ref

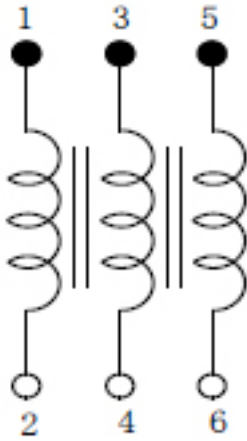
Please contact Vigortronix for any enquiries. Products can be altered to suit custom requirements.
The information contained in this document is subject to change without notice.

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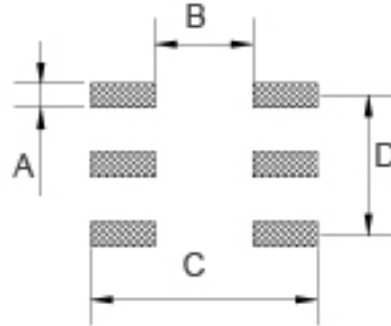
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General Specifications

Schematic



PCB Pad Layout



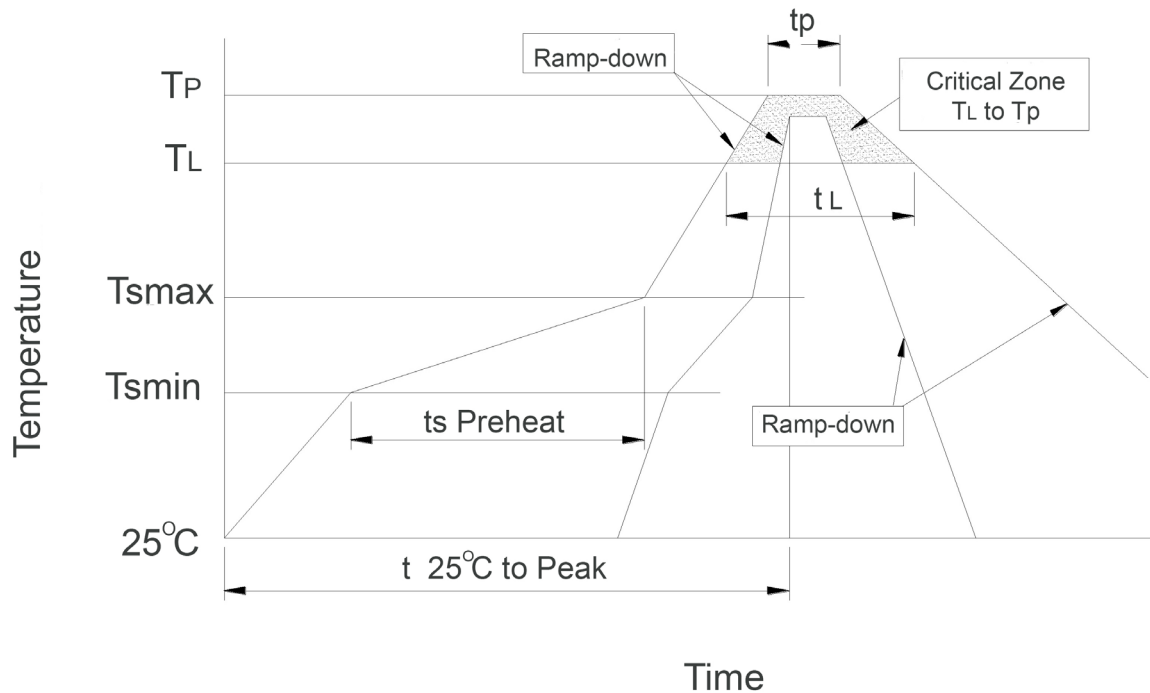
ID	Dim (mm)
A	1.5
B	5.2
C	8.2
D	5.0

Specification	Condition	Min	Typ.	Max	Unit
Inductance	100KHz/1V	300	430	-	uH
Winding Ratio	1 : 1 : 1	-	1-1-1	-	Ratio
Winding DCR	Wind 1 (1-2) Wind 2 (3-4) Wind 3 (5-6)	-	230	420	mΩ
Voltage Isolation	Wind to Wind (2Sec)	1.5	-	-	KVrms
Temperature rise (above Ambient)	at rated Current	-	-	+45	°C
Operating Range		-25	-	+85	°C
Storage Temperature Range		-25	-	+95	°C
Humidity Range		-	-	95 Max	%RH
Leakage Inductance	1-2 (Short 3,4,5,6)	-	-	0.5 Max	uH

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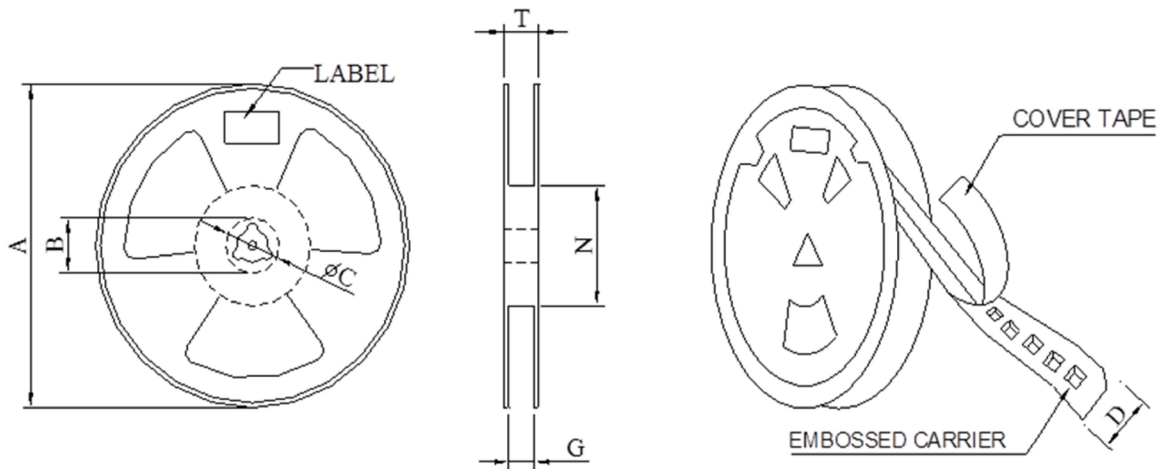
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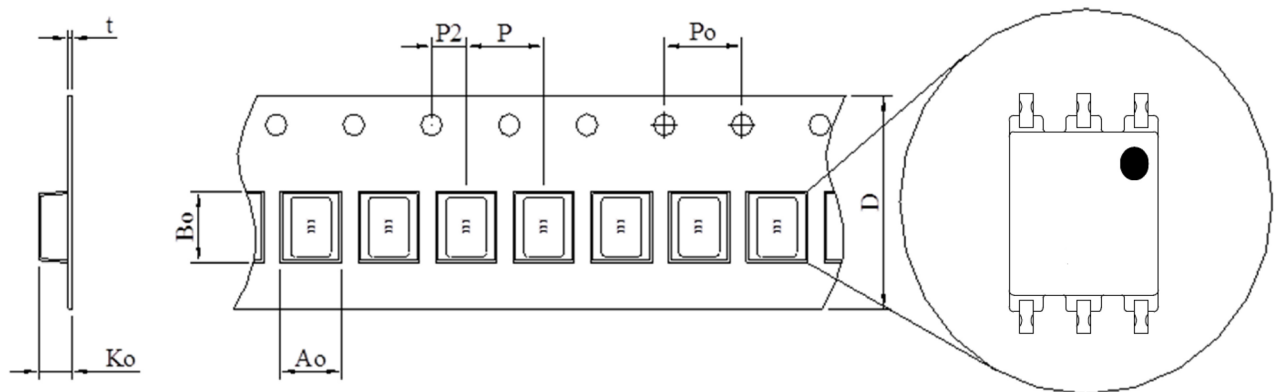
Reflow Parameters	
Average ramp-up rate (TL to Tp)	3°C / Second Max
Preheat -Temperature Min (Tsm) -Temperature Min (Tsmx) -Temperature Min to Max (TS)	150 °C 200 °C 60 - 180 Seconds
Tsmx to TL -Ramp-up Rate	3°C / Second Max
Time maintained above: -Temperature (TL) -Time (tL)	217°C 60 - 150 Seconds
Peak Temperature (Tp)	255 ±5°C
Time within 5°C of actual Peak Temperature (tp)	20 - 40 Seconds
Ramp-down Rate	6°C / Second Max
Time 25°C o peak Temperature	8 Minutes Max
Note: All Temperatures refer to topside of the package. Measured on the package body surface.	

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Packaging: Tape and Reel



*CARRIER TAPE WIDTH : D



STAYLE	DIMENSIONS (m/m)														
	Q'TY (PCS)	A	B	C	D	G	N	T	Ao	Bo	Ko	t	P	Po	P2
24	1000	330	—	—	16 ±0.3	24.5	100	—	6.7 ±0.1	8.9 ±0.1	3.9 ±0.1	0.35 ±0.05	12.0 ±0.1	4.0 ±0.1	2.0 ±0.1
Reel Qty = 1,000pcs															
Carton Qty = (1,000pcs/reel * 3)/box * 5 box = 15,000pcs															

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