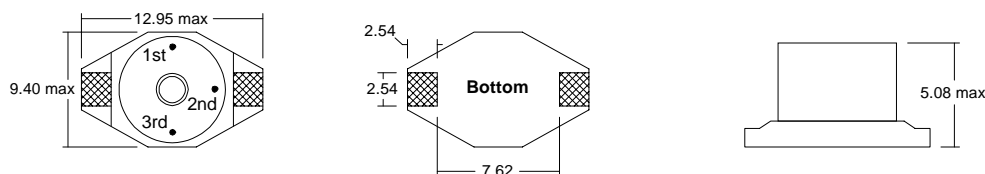


# SMD Power Inductor (PSDT-0804 Series)

## Dimensions



(Not to scale)

Dimensions in mm

## Part Numbering Guide

**PSDT - 0804 - 1R0 M - T**

Dimensions  
(Length, Height)

Inductance Code

Packaging Style

B=Bulk  
T=Tape & Reel  
(700 pcs per reel)

Tolerance  
M=20%

## Features

Inductance Range	1.0 $\mu$ H to 1000 $\mu$ H
Tolerance	20%
Operating Temperature	-40°C to 85°C

## Electrical Specifications

Inductance Code	Inductance ( $\mu$ H)	Test Freq	DCR Max (Ohms)	Inductance Rating* ( $\mu$ H)	Current Rating** (A)	Max Energy Storage ( $\mu$ J)	Max Switching Freq
1R0	1.0	100 kHz, 0 Adc	0.025	0.50	5.0	9	1 MHz
1R5	1.5	100 kHz, 0 Adc	0.030	0.70	5.0	12	1 MHz
2R2	2.2	100 kHz, 0 Adc	0.035	1.0	5.0	15	1 MHz
3R3	3.3	100 kHz, 0 Adc	0.040	1.5	5.0	16	1 MHz
4R7	4.7	100 kHz, 0 Adc	0.045	2.0	3.0	10	1 MHz
6R8	6.8	100 kHz, 0 Adc	0.050	4.0	2.5	14	1 MHz
100	10	100 kHz, 0 Adc	0.055	5.0	2.0	11	1 MHz
150	15	100 kHz, 0 Adc	0.060	6.0	1.8	12	1 MHz
220	22	100 kHz, 0 Adc	0.084	10	1.5	11	1 MHz
330	33	100 kHz, 0 Adc	0.090	12	1.3	13	1 MHz
470	47	100 kHz, 0 Adc	0.11	27	1.0	13	1 MHz
680	68	100 kHz, 0 Adc	0.15	40	0.90	17	1 MHz
101	100	100 kHz, 0 Adc	0.29	50	0.80	15	1 MHz
151	150	100 kHz, 0 Adc	0.36	80	0.60	15	500 kHz
221	220	100 kHz, 0 Adc	0.39	90	0.50	10	500 kHz
331	330	100 kHz, 0 Adc	0.73	150	0.40	13	500 kHz
471	470	100 kHz, 0 Adc	0.88	200	0.35	13	500 kHz
681	680	100 kHz, 0 Adc	1.15	300	0.30	13	500 kHz
102	1000	100 kHz, 0 Adc	1.45	420	0.25	13	500 kHz

\*Measured at the rated current.

\*\*Average maximum allowable current. PSDT series inductors are designed for current spikes as high double the current rating.

Specifications subject to change without notice. Rev. 10/00