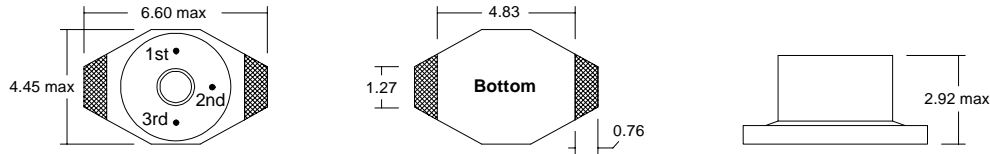


SMD Power Inductor (PSDT-0402 Series)

Dimensions



(Not to scale)

Dimensions in mm

Part Numbering Guide

PSDT - 0402 - 1R0 M - T

Dimensions
(Length, Height)

Inductance Code

Packaging Style

B=Bulk
T=Tape & Reel
(2000 pcs per reel)

Tolerance

M=20%

Features

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

Electrical Specifications

Inductance Code	Inductance (μ H)	Test Freq	DCR Max (Ohms)	Inductance Rating* (μ H)	Current Rating** (A)	Max Energy Storage (μ J)	Max Switching Freq
1R0	1.0	100 kHz, 0 Adc	0.045	0.60	2.0	1.8	1 MHz
1R5	1.5	100 kHz, 0 Adc	0.050	0.80	1.9	1.8	1 MHz
2R2	2.2	100 kHz, 0 Adc	0.060	0.90	1.5	1.8	1 MHz
3R3	3.3	100 kHz, 0 Adc	0.070	1.5	1.2	1.4	1 MHz
4R7	4.7	100 kHz, 0 Adc	0.080	2.0	1.2	1.6	1 MHz
6R8	6.8	100 kHz, 0 Adc	0.085	3.0	1.0	1.9	1 MHz
100	10	100 kHz, 0 Adc	0.095	5.0	0.7	1.2	1 MHz
150	15	100 kHz, 0 Adc	0.135	6.0	0.6	1.1	1 MHz
220	22	100 kHz, 0 Adc	0.160	10	0.5	1.2	1 MHz
330	33	100 kHz, 0 Adc	0.275	12	0.45	1.5	1 MHz
470	47	100 kHz, 0 Adc	0.340	20	0.34	1.3	1 MHz
680	68	100 kHz, 0 Adc	0.575	30	0.29	1.4	1 MHz
101	100	100 kHz, 0 Adc	1.10	40	0.24	1.5	1 MHz
151	150	100 kHz, 0 Adc	1.40	60	0.20	1.4	500 kHz
221	220	100 kHz, 0 Adc	2.25	90	0.17	1.6	500 kHz
331	330	100 kHz, 0 Adc	2.90	100	0.16	1.4	500 kHz
471	470	100 kHz, 0 Adc	3.60	150	0.14	1.5	500 kHz
681	680	100 kHz, 0 Adc	4.55	200	0.12	1.4	500 kHz
102	1000	100 kHz, 0 Adc	8.10	400	0.08	1.4	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