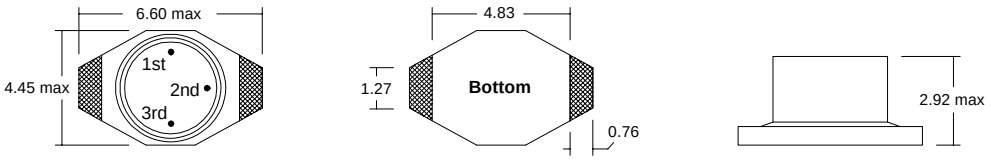
SMD Power Inductor **(PSDS-0402 Series)**

CALIBER ELECTRONICS INC.
specifications subject to change * revision 3-2003

Dimensions



(Not to scale)

Dimensions in mm

Part Numbering Guide

PSDS - 0402 - 1R2 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 µH to 10000 µH
Tolerance	20%
Construction	Magnetically Shielded
Operating Temperature	-40°C to 85°C

Electrical Specifications

Inductance Code	Inductance (µH)	Test Freq	Q Min @100 kHz	DCR Max (Ohms)	SRF (MHz)	Current Max* (A)
1R0	1.0	100 kHz, 0.1 Vrms	30	0.040	250	3.0
1R5	1.5	100 kHz, 0.1 Vrms	30	0.045	125	2.8
2R2	2.2	100 kHz, 0.1 Vrms	40	0.050	120	1.8
3R3	3.3	100 kHz, 0.1 Vrms	40	0.055	120	1.6
4R7	4.7	100 kHz, 0.1 Vrms	40	0.060	105	1.4
6R8	6.8	100 kHz, 0.1 Vrms	40	0.065	50	1.2
100	10	100 kHz, 0.1 Vrms	40	0.075	38	1.0
150	15	100 kHz, 0.1 Vrms	40	0.090	33	0.80
220	22	100 kHz, 0.1 Vrms	40	0.11	25	0.70
330	33	100 kHz, 0.1 Vrms	40	0.19	20	0.60
470	47	100 kHz, 0.1 Vrms	40	0.23	20	0.50
680	68	100 kHz, 0.1 Vrms	40	0.29	15	0.40
101	100	100 kHz, 0.1 Vrms	40	0.48	10	0.30
151	150	100 kHz, 0.1 Vrms	40	0.59	9	0.26
221	220	100 kHz, 0.1 Vrms	40	0.77	6	0.22
331	330	100 kHz, 0.1 Vrms	40	1.4	5	0.20
471	470	100 kHz, 0.1 Vrms	40	1.8	4	0.19
681	680	100 kHz, 0.1 Vrms	40	2.2	3	0.18
102	1000	100 kHz, 0.1 Vrms	40	3.4	2	0.15
152	1500	100 kHz, 0.1 Vrms	50	4.2	2	0.12
222	2200	100 kHz, 0.1 Vrms	50	8.5	2	0.10
332	3300	100 kHz, 0.1 Vrms	50	11.0	1	0.08
472	4700	100 kHz, 0.1 Vrms	50	13.9	1	0.06
682	6800	100 kHz, 0.1 Vrms	50	25.0	1	0.04
103	10000	100 kHz, 0.1 Vrms	50	32.8	0.8	0.02

*30°C temperature rise.

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

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