

PRELIMINARY

Power Chip Inductors - 1008PS Series



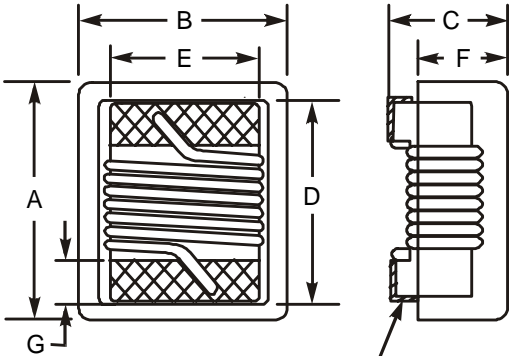
Coilcraft's new 1008PS Series is designed to be an economical alternative to larger and more costly shielded power inductors.

Only 2.6 mm high, they are ideal for applications requiring magnetic shielding, the smallest possible size and lowest cost. Typical uses include notebook computers, PC cards, wireless communication and handheld devices.

The specially designed ferrite cover provides magnetic shielding and the best possible surface for pick and place handling.

In addition to the 1008 size shown here, Coilcraft is developing 0805, 1812 and 2220 power chip inductors with similar characteristics.

For free evaluation samples, contact Coilcraft or visit www.coilcraft.com.



Terminal wraparound: approx. .008/0,2 both ends

A	B	C	D	E	F	G
0.15	0.15	0.10	0.10	0.08	0.07	0.02
3,7	3,7	2,6	2,5	2,0	1,7	0,5

Parts/reel: 13" 2500 Tape width: 12 mm
For packaging data see "Tape and Reel Specifications" (Document 173)

Part Number	Inductance (μH) ±20%	DCR max (Ohms)	SRF typ (MHz)	Isat (A)	Irms (A)
1008PS-451	0.45	0.04	580	3.30	2.50
1008PS-681	0.68	0.06	440	2.40	2.30
1008PS-102	1.0	0.06	310	2.00	2.10
1008PS-152	1.5	0.06	260	1.90	2.00
1008PS-272	2.7	0.10	160	0.85	1.40
1008PS-332	3.3	0.11	150	0.73	1.30
1008PS-392	3.9	0.15	150	0.68	1.30
1008PS-472	4.7	0.15	150	0.66	1.30
1008PS-602	6	0.17	110	0.62	1.20
1008PS-103	10	0.38	97	0.60	0.80
1008PS-153	15	0.52	46	0.58	0.70
1008PS-223	22	0.67	17.5	0.50	0.60
1008PS-243	24	0.72	14.1	0.48	0.50
1008PS-333	33	0.82	11.1	0.46	0.50
1008PS-473	47	1.42	9.8	0.37	0.40
1008PS-683	68	1.60	6.7	0.26	0.40
1008PS-823	82	1.87	6.4	0.24	0.35
1008PS-124	120	3.45	4.7	0.20	0.30
1008PS-154	150	3.80	4.1	0.15	0.25
1008PS-224	220	5.50	2.8	0.13	0.25
1008PS-334	330	11.4	2.2	0.11	0.20
1008PS-474	470	16.5	3.1	0.08	0.15
1008PS-564	560	14.5	2.8	0.10	0.18
1008PS-684	680	16	1.7	0.10	0.18
1008PS-824	820	18	1.5	0.08	0.18
1008PS-105	1000	24	1.5	0.05	0.10

1. Inductance measured at 100 kHz, 0.1 Vrms, using Coilcraft SMD-A fixture in Agilent 4263B impedance analyzer with Coilcraft-provided correlation pieces. For recommended test procedures, contact Coilcraft.
2. Q measured using HP16193 test fixture and on HP8753D with Coilcraft SMD-D test fixture.
3. SRF measured using HP8753D network analyzer and Coilcraft SMD-D test fixture.
4. RDC measured on Cambridge Technology micro-ohmmeter and Coilcraft CCF 840 test fixture.
5. Operating temperature range -40° C to +125° C.
6. Electrical specifications at 25° C.



Specifications subject to change without notice. Document 219 Revised 10/24/00

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