

PRELIMINARY

Power Chip Inductors - 0805PS Series

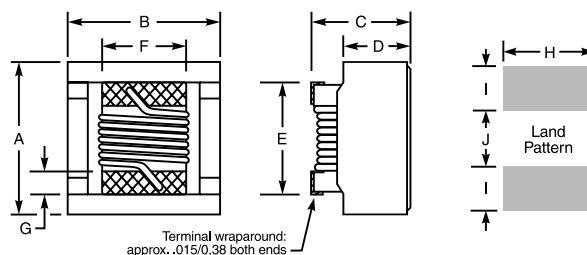


High inductance and current carrying capability combined with low cost make Coilcraft's 0805PS Series an attractive alternative to larger and more costly shielded power inductors.

With their ferrite body and electromagnetic shield, these parts can provide inductance values up to 330 μH and saturation current ratings up to 800 mAmps. Both are exceptionally high for a part with a footprint of just 3,0 x 3,4 mm.

Coilcraft **Designer's Kit C148** contains six samples each of the standard parts shown. To order, contact Coilcraft or visit <http://order.coilcraft.com> to order on-line.

Part Number ¹	$L \pm 20\%^2$ (μH)	Q_{typ}^3 @ 1 MHz	DCR^4 max (Ohms)	SRF^5 typ (MHz)	Isat^6 (A)
0805PS-102M	1.0	21	0.09	445	0.80
0805PS-152M	1.5	21	0.10	400	0.75
0805PS-272M	2.7	21	0.23	350	0.75
0805PS-332M	3.3	21	0.32	200	0.50
0805PS-392M	3.9	21	0.42	200	0.40
0805PS-472M	4.7	21	0.60	195	0.36
0805PS-562M	5.6	21	0.60	170	0.35
0805PS-682M	6.8	21	0.97	155	0.32
0805PS-103M	10	21	1.17	110	0.27
0805PS-153M	15	21	1.48	60	0.22
0805PS-223M	22	25	2.00	42	0.18
0805PS-333M	33	25	2.18	28	0.15
0805PS-473M	47	25	2.70	22	0.12
0805PS-683M	68	28	3.20	18	0.11
0805PS-823M	82	30	4.62	18	0.09
0805PS-104M	100	32	5.22	13	0.09
0805PS-124M	120	32	5.95	11	0.09
0805PS-154M	150	32	6.42	7	0.07
0805PS-224M	220	32	9.94	5	0.05
0805PS-334M	330	32	12.75	5	0.05



A max	B max	C max	D	E	F	G	H	I	J
.133	.118	.071	.056	.050	.080	.020	.070	.040	.030
3,38	3,00	1,80	1,42	1,27	2,03	0,51	1,78	1,02	0,76

Parts/reel: 7" 1500; 13" 7500 Tape width: 8 mm
For packaging data see "Tape and Reel Specifications" (Document 173)

For environmental data see "Product Specifications" (Document 121)

1. When ordering, please specify packaging code:

← **Packaging code:**

0805PS-334M C= 7" machine-ready reel EIA RS-481 clear plastic tape. 1500 per reel.

B= Less than full reel Not machine-ready. The carrier tape may not be a single continuous length. To have a leader and trailer added (\$25 charge), use code letter C instead.

D= 13" machine-ready reel EIA RS-481 clear plastic tape. Factory order only, not stocked. 7500 per reel.

- Inductance measured at 100 kHz, 0.1 Vrms, using Coilcraft SMD-A fixture in Agilent/HP 4263B impedance analyzer with Coilcraft-provided correlation pieces. For recommended test procedures, contact Coilcraft.
- Q measured on Agilent/HP4291 with Agilent/HP16193 test fixture.
- DCR measured on micro-ohmmeter and Coilcraft CCF 840 test fixture.
- SRF measured using Agilent/HP8753D network analyzer and Coilcraft SMD-D test fixture.
- Inductance drop = 10% typ. at rated Isat.
- Operating temperature range -40° C to +85° C.
- Electrical specifications at 25° C.

Coilcraft

Specifications subject to change without notice. Document 265 Revised 9/10/01

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