

**NEW!**

# 1008PS Inductors for xDSL Filters

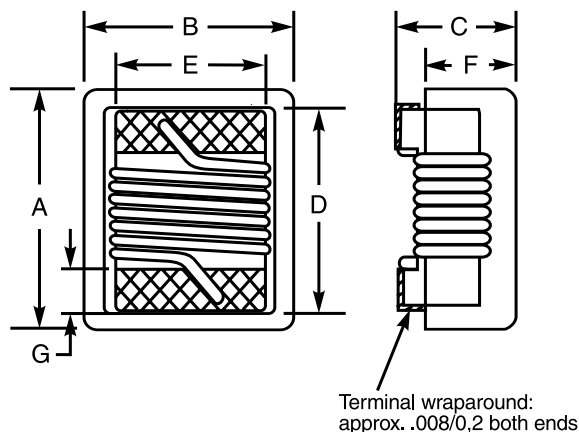


Coilcraft's new 1008PS Series is ideal for use in a variety of filters, including the data separation filters used in VDSL and ISDN/ADSL implementations.

They measure just 2.6 mm high and have very low DC resistance to reduce insertion loss. The specially designed ferrite cover provides magnetic shielding and the best possible surface for pick and place handling.

Coilcraft offers a library of reference designs for various xDSL filters using these and other surface mount components. We can also provide several complete low pass and band pass filter modules in space-saving SIP configurations.

Coilcraft **Designer's Kit C141** contains six samples each of the standard parts shown. To order, contact Coilcraft or visit <http://order.coilcraft.com>.



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: 7" 750; 13" 2500 Tape width: 12 mm  
For packaging data see "Tape and Reel Specifications" (Document 173)

Part Number	Inductance <sup>1</sup> ( $\mu\text{H}$ ) $\pm 20\%$	DCR max <sup>2</sup> (Ohms)	SRF typ <sup>3</sup> (MHz)	Isat <sup>4</sup> (A)	I <sub>rms</sub> <sup>5</sup> (A)
1008PS-102MC	1.0	0.05	344	3.0	2.90
1008PS-152MC	1.5	0.06	260	2.8	2.55
1008PS-202MC	2.0	0.08	225	2.1	2.20
1008PS-352MC	3.5	0.13	185	1.3	1.95
1008PS-392MC	3.9	0.17	175	1.2	1.50
1008PS-472MC	4.7	0.30	160	1.0	1.30
1008PS-572MC	5.7	0.32	150	1.0	0.95
1008PS-702MC	7.0	0.45	120	0.84	0.85
1008PS-103MC	10	0.80	105	0.78	0.75
1008PS-153MC	15	1.03	35	0.70	0.70
1008PS-223MC	22	1.22	26	0.65	0.60
1008PS-333MC	33	1.55	20	0.51	0.58
1008PS-393MC	39	1.65	16	0.45	0.51
1008PS-473MC	47	2.2	19	0.40	0.48
1008PS-683MC	68	3.3	12	0.31	0.40
1008PS-823MC	82	3.7	9.0	0.30	0.35
1008PS-104MC	100	5.5	7.0	0.30	0.32
1008PS-124MC	120	6.0	7.0	0.25	0.31
1008PS-154MC	150	6.4	5.8	0.22	0.28
1008PS-224MC	220	9.4	10.0	0.22	0.24
1008PS-334MC	330	10.6	3.8	0.20	0.22
1008PS-474MC	470	13.0	3.1	0.16	0.20
1008PS-564MC	560	16.7	2.8	0.13	0.18
1008PS-684MC	680	18.5	2.5	0.12	0.17
1008PS-824MC	820	24	1.5	0.10	0.16
1008PS-105MC	1000	29	2.0	0.10	0.14

1. Inductance measured at 100 kHz, 0.1 V<sub>rms</sub>, using Coilcraft SMD-A fixture in Agilent 4263B impedance analyzer with Coilcraft-provided correlation pieces. For recommended test procedures, contact Coilcraft.
2. DCR measured on micro-ohmmeter and Coilcraft CCF 840 test fixture.
3. SRF measured using HP8753D network analyzer and Coilcraft SMD-D test fixture.
4. Inductance drop = 10% typ. at rated Isat.
5.  $\Delta T = 40^\circ\text{C}$  rise typ. at I<sub>rms</sub>.
6. Operating temperature range  $-40^\circ\text{C}$  to  $+125^\circ\text{C}$ .
7. Electrical specifications at  $25^\circ\text{C}$ .

# Coilcraft

Specifications subject to change without notice. Document 240 Revised 12/11/00

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