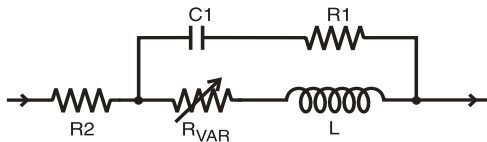


SPICE Model – DS5022

This data allows you to create a model that adequately simulates the behavior of Coilcraft power inductors from DC to 100 kHz.

SPICE Equivalent of Circuit

An equivalent SPICE model of our power inductors is illustrated in schematic form below.



- $R_{VAR} = k * \sqrt{f}$ (k can be taken from the accompanying tables, and f is expressed in Hz).
- All required values can be taken from the accompanying table.

Part number	R1	R2	C (nF)	L (μ H)	k
DS5022P-103	12	0.085	1	9	1.40E-05
DS5022P-153	16	0.08	1	14	1.40E-05
DS5022P-223	18	0.125	1	19	1.40E-05
DS5022P-333	20	0.08	1	31	2.80E-04
DS5022P-473	27	0.1	0.9	45	3.50E-04
DS5022P-683	27	0.13	0.8	65	4.00E-04
DS5022P-104	27	0.2	0.65	91	4.30E-04
DS5022P-154	29	0.28	0.5	140	5.20E-04
DS5022P-224	27	0.35	0.4	200	5.60E-04
DS5022P-334	34	0.55	0.2	325	2.20E-03
DS5022P-474	28	0.65	0.18	474	2.00E-03
DS5022P-684	32	0.8	0.17	630	4.00E-03
DS5022P-105	30	1.4	0.17	850	4.00E-03

Coilcraft[®]

Specifications subject to change without notice. Document 316-10 Revised 11/13/02

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail info@coilcraft.com Web <http://www.coilcraft.com>