

SMT Power Inductors - DS5022 Series

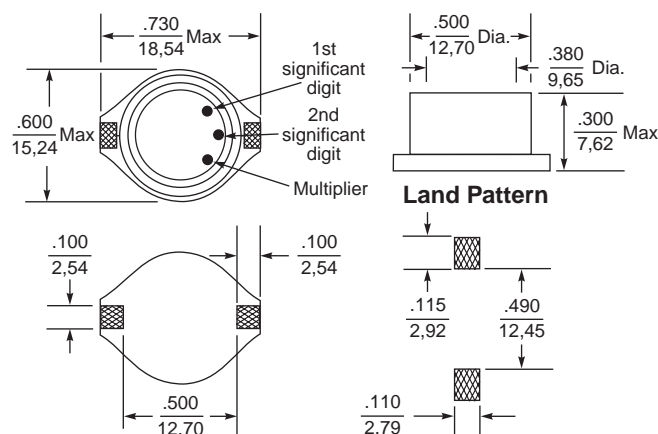


The DS5022 Series is a family of magnetically shielded power inductors designed for the higher current requirements of portable computers, video recorders and other DC-DC conversion applications.

They feature saturation current ratings as high as 8 Amps and rms current ratings up to 3.9 Amps. Low DC resistance (as low as .035 Ohms) keeps power losses to a minimum.

Designed specifically for surface mounting, the DS5022 has a flat top for reliable pick and place operations. The terminals wrap around the end of the base to ensure a sound solder fillet and simplify inspection.

Coilcraft **Designer's Kit C117** contains samples of each of the standard parts shown. To order, contact Coilcraft or visit <http://order.coilcraft.com>.



Parts/reel: 13" 250 Tape width: 32 mm
For packaging data see "Tape and Reel Specifications" section (Doc. 173)

Part Number	L $\pm 20\%$ ¹ (μ H)	DCR max (Ohms)	SRF typ (MHz)	Isat ² (A)	Irms ³ (A)
DS5022P-103	10	.040	30	8.0	3.9
DS5022P-153	15	.048	20	7.0	3.4
DS5022P-223	22	.059	18	6.0	3.1
DS5022P-333	33	.075	14	5.0	2.8
DS5022P-473	47	.097	10	4.0	2.4
DS5022P-683	68	.138	9	3.0	2.0
DS5022P-104	100	.207	7	2.4	1.7
DS5022P-154	150	.293	6	2.1	1.3
DS5022P-224	220	.47	5	1.9	1.1
DS5022P-334	330	.78	4	1.1	0.86
DS5022P-474	470	1.08	3	1.1	0.73
DS5022P-684	680	1.40	2.5	0.96	0.64
DS5022P-105	1000	2.01	2	0.80	0.53

For environmental data see "Product Specifications" (Document 164).

1. Inductance tested at 0.1 Vrms, 100 kHz

2. Inductance drop 10% typ. at Isat

3. 40° rise typ. at Irms

4. Operating temperature range -40° C to +85° C

5. Electrical specifications at 25° C

Coilcraft

Specifications subject to change without notice. Document 188 Revised 1/29/99

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