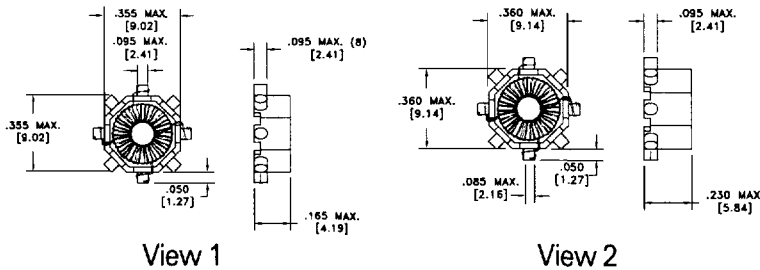


### Surface-mount power inductors: Midcom introduces new product line



Part	Inductance <sup>1</sup>	DCR		Inductance (parallel) <sup>4</sup>		View
		Series <sup>2</sup>	Parallel <sup>3</sup>	ADC	min $\mu$ H	
40000	0.420	0.022	0.006	5.5	0.30	1
40001	0.600	0.025	0.006	5.1	0.42	1
40002	1.07	0.032	0.008	4.5	0.71	1
40003	2.02	0.054	0.014	3.4	1.33	1
40004	4.83	0.161	0.040	2.0	3.29	1
40005	8.08	0.208	0.052	1.8	5.18	1
40006	9.62	0.227	0.057	1.7	6.07	1
40007	15.0	0.348	0.087	1.4	9.38	1
40008	20.5	0.634	0.159	1.0	13.8	1
40009	25.4	0.708	0.177	0.96	16.6	1
40010	32.3	1.00	0.250	0.80	21.7	1
40011	50.5	1.26	0.316	0.70	32.7	1
40012	68.4	1.49	0.373	0.66	42.6	1
40013	99.0	2.23	0.557	0.54	62.0	1
40014	151	3.38	0.844	0.44	94.2	1
40015	198	4.83	1.210	0.36	128	1
40016	300	6.10	1.530	0.32	185	1
40017	0.54	0.024	0.006	5.9	0.41	2
40018	0.85	0.029	0.007	5.4	0.62	2
40019	1.22	0.034	0.009	5.0	0.87	2
40020	2.18	0.056	0.014	3.9	1.52	2
40021	4.90	0.128	0.032	2.5	3.48	2
40022	7.65	0.159	0.040	2.3	5.18	2
40023	9.83	0.179	0.045	2.1	6.56	2
40024	15.0	0.339	0.085	1.6	10.3	2
40025	19.6	0.387	0.097	1.5	13.0	2
40026	24.8	0.436	0.109	1.4	16.2	2
40027	32.7	0.503	0.126	1.3	21.2	2
40028	49.1	1.220	0.305	0.82	34.4	2
40029	68.9	1.450	0.362	0.76	46.7	2
40030	99.1	2.160	0.541	0.62	67.8	2
40031	148	2.660	0.665	0.56	97.6	2
40032	202	3.800	0.951	0.46	135	2
40033	300	4.700	1.18	0.42	193	2

<sup>1</sup> Terminals 1 to 3, expressed in  $\mu$ H  $\pm$ 20%.

<sup>2</sup> Terminals 1 to 5, with terminals 3 and 7 tied; expressed in ohms max.

<sup>3</sup> Terminals 1 to 3, with terminals 7 and 1 tied, and 3 and 5 tied; expressed in ohms max.

<sup>4</sup> Terminals 1 to 3, with terminals 7 and 1 tied, and 3 and 5 tied.

### Features

- Maximum power density
- Toroid design offers high efficiency
- Versatility
- Low EMI radiation
- Full load current range: 0.22 to 7.90 ADC
- Available in tape-and-reel packaging for pick-and-place operations
- Low cost
- Dielectric strength 500VDC

### Applications

- Cellular, battery-powered, low-voltage power applications, pagers, portable instruments
- Sepic converters
- Buck converters and boost converters
- Switching voltage regulators
- Isolated 1:1 applications
- Pagers
- Portable instruments
- Coupled inductors
- Chokes

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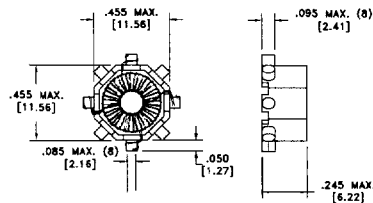
Details subject to change. Contact your Midcom sales representative for a formal specification sheet.

Preliminary

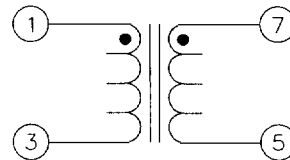
Part	Inductance <sup>1</sup>	DCR		Inductance (parallel) <sup>4</sup>		View
		Series <sup>2</sup>	Parallel <sup>3</sup>	ADC	min $\mu$ H	
40034	0.46	0.025	0.007	6.20	0.34	3
40035	0.67	0.029	0.008	5.70	0.49	3
40036	0.91	0.033	0.009	5.40	0.63	3
40037	1.85	0.045	0.012	4.60	1.21	3
40038	4.74	0.090	0.023	3.20	2.96	3
40039	8.16	0.119	0.030	2.80	4.78	3
40040	9.79	0.132	0.033	2.70	5.57	3
40041	14.5	0.198	0.050	2.20	8.29	3
40042	20.2	0.443	0.111	1.50	12.8	3
40043	25.3	0.499	0.125	1.40	15.8	3
40044	32.6	0.571	0.143	1.30	19.8	3
40045	50.0	1.11	0.277	0.92	32.2	3
40046	68.8	1.31	0.328	0.84	43.0	3
40047	101	2.01	0.502	0.68	63.9	3
40048	150	2.48	0.621	0.64	88.7	3
40049	200	2.93	0.732	0.60	114	3
40050	298	3.70	0.926	0.50	168	3
40051	0.49	0.019	0.005	7.9	0.36	3
40052	0.76	0.023	0.006	7.2	0.55	3
40053	1.10	0.034	0.009	5.9	0.79	3
40054	1.95	0.055	0.014	4.6	1.38	3
40055	5.15	0.107	0.027	3.3	3.47	3
40056	7.81	0.131	0.033	3.0	5.02	3
40057	9.88	0.187	0.047	2.5	6.53	3
40058	14.8	0.228	0.057	2.3	9.28	3
40059	20.6	0.337	0.084	1.9	13.1	3
40060	25.7	0.462	0.116	1.6	16.7	3
40061	33.2	0.663	0.166	1.3	22.4	3
40062	48.8	0.805	0.201	1.2	31.4	3
40063	67.4	0.952	0.238	1.1	42.0	3
40064	99.1	2.26	0.565	0.72	67.8	3
40065	149	2.78	0.696	0.64	98.9	3
40066	200	3.24	0.810	0.60	128	3
40067	299	4.01	1.00	0.54	183	3

Preliminary

- <sup>1</sup> Terminals 1 to 3, expressed in  $\mu$ H  $\pm$ 20%.
- <sup>2</sup> Terminals 1 to 5, with terminals 3 and 7 tied; expressed in ohms max.
- <sup>3</sup> Terminals 1 to 3, with terminals 7 and 1 tied, and 3 and 5 tied; expressed in ohms max.
- <sup>4</sup> Terminals 1 to 3, with terminals 7 and 1 tied, and 3 and 5 tied.



View 3



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