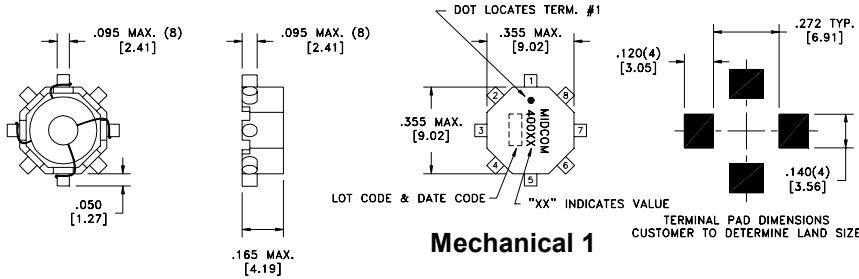
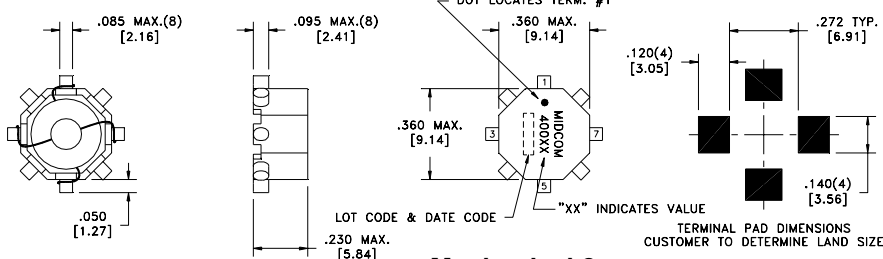


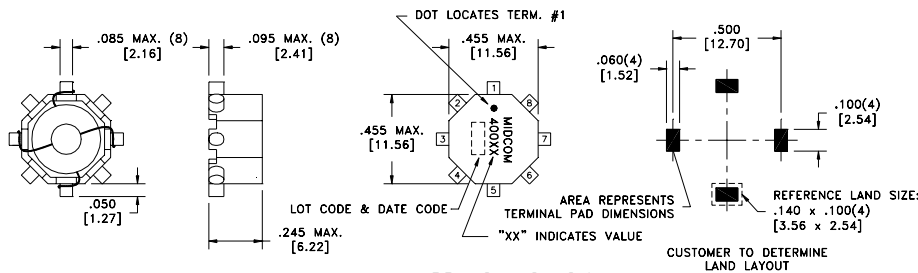
## 40K Series



**Mechanical 1**



**Mechanical 2**



**Mechanical 3**

## Features

- Maximum power density
- Toroid design offers high efficiency
- Versatility
- Low EMI radiation
- Full load current range: 0.22 to 7.90 ADC
- Designed for pick and place
- Low Cost
- Dielectric strength to 500VDC

## Applications

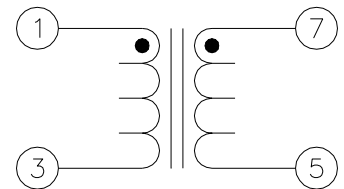
- Cellular, battery-powered, low-voltage power applications, pager, portable instruments.
- Sepic converters
- Buck and boost converters
- Switching voltage regulators
- Isolated 1:1 applications
- Pagers
- Portable instruments
- Coupled inductors
- Chokes

## Environmental Specifications

- Operating temp range: -40° to +85°C
- Storage temp range: -50° to +125°C

## Packaging

- EIA-481-2 embossed 24mm carrier tape
- Mechanical 1 parts: 800 pieces per 13" reel
- Mechanical 2 parts: 625 pieces per 13" reel
- Mechanical 3 parts: 600 pieces per 13" reel



Part Number	L +/-20% uH (1)	DCR Max. Ω		Isat ADC Parallel	L Min. (μH) Parallel (4)	Mech.
		Series (2)	Parallel (3)			
40000R	0.395	0.022	0.006	5.5	0.28	1
40034R	0.420	0.025	0.007	6.2	0.30	3
40017R	0.490	0.024	0.006	5.9	0.36	2
40051R	0.490	0.019	0.005	7.9	0.33	3
40001R	0.565	0.025	0.006	5.1	0.41	1
40035R	0.670	0.029	0.008	5.7	0.49	3
40052R	0.760	0.023	0.006	7.2	0.54	3
40018R	0.795	0.029	0.007	5.4	0.57	2
40036R	0.910	0.033	0.009	5.4	0.63	3
40002R	1.020	0.032	0.008	4.5	0.71	1
40053R	1.100	0.034	0.009	5.9	0.79	3

Note1: Inductance value at 100kHz, 100mV, 0ADC  
 Note2: DCR limits at 20°C terminals 1-5, with terminals 3 and 7 tied.  
 Note3: DCR limits at 20°C terminals 1-3, with terminals 1 and 7; and 3 and 5 tied.  
 Note4: Terminals 1-3, with terminals 1 and 7; and 3 and 5 tied.

(Continued on the following page)

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## 40K Series (continued)

Part Number	L +/-20% uH (1)	DCR Max. Ω		Isat ADC Parallel	L Min. (μH) Parallel (4)	Mech.
		Series (2)	Parallel (3)			
40019R	1.14	0.034	0.009	5.0	0.82	2
40037R	1.85	0.045	0.012	4.6	1.21	3
40054R	1.92	0.055	0.014	4.6	1.38	3
40003R	2.02	0.054	0.014	3.4	1.33	1
40020R	2.03	0.056	0.014	3.9	1.52	2
40038R	4.74	0.090	0.023	3.2	2.96	3
40004R	4.83	0.161	0.040	2.0	3.29	1
40021R	4.90	0.128	0.032	2.5	3.48	2
40055R	5.15	0.107	0.027	3.3	3.47	3
40022R	7.65	0.159	0.040	2.3	5.18	2
40056R	7.81	0.131	0.033	3.0	5.02	3
40005R	8.08	0.208	0.052	1.8	5.18	1
40039R	8.16	0.119	0.030	2.8	4.78	3
40006R	9.62	0.227	0.057	1.7	6.07	1
40040R	9.79	0.132	0.033	2.7	5.57	3
40023R	9.83	0.179	0.045	2.1	6.56	2
40057R	9.88	0.187	0.047	2.5	6.53	3
40041R	14.5	0.198	0.050	2.2	8.29	3
40058R	14.8	0.228	0.057	2.3	9.28	3
40007R	15.0	0.348	0.087	1.4	9.38	1
40024R	15.0	0.339	0.085	1.6	10.3	2
40025R	19.6	0.387	0.097	1.5	13.0	2
40826R	20.0	0.188	0.047	3.0	10.0	3
40042R	20.2	0.443	0.111	1.5	12.8	3
40008R	20.5	0.634	0.159	1.0	13.8	1
40059R	20.6	0.337	0.084	1.9	13.1	3
40026R	24.8	0.436	0.109	1.4	16.2	2
40043R	25.3	0.499	0.125	1.4	15.8	3
40009R	25.4	0.708	0.177	0.9	16.6	1
40060R	25.7	0.462	0.116	1.6	16.7	3
40010R	32.3	1.000	0.250	0.8	21.7	1
40044R	32.6	0.571	0.143	1.3	19.8	3
40027R	32.7	0.503	0.126	1.3	21.2	2

Note1: Terminals 1-3 @ 100kHz and 100mV.

Note2: DCR limits at 20°C terminals 1-5, with terminals 3 and 7 tied.

Note3: DCR limits at 20°C terminals 1-3, with terminals 1 and 7; and 3 and 5 tied.

Note4: Terminals 1-3, with terminals 1 and 7; and 3 and 5 tied @ 100kHz and 100mV.

### Features

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### Applications

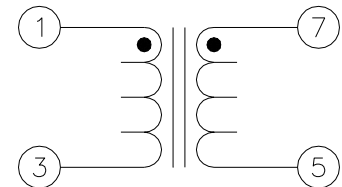
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(Continued on the following page)

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## 40K Series (continued)

Part Number	L +/-20% uH (1)	DCR Max. $\Omega$		Isat ADC Parallel	L Min. ( $\mu$ H)		Mech.
		Series (2)	Parallel (3)		Parallel (4)	Parallel (4)	
40061R	33.2	0.67	0.166	1.30	22.4	3	
40062R	48.8	0.81	0.201	1.20	31.4	3	
40028R	49.1	1.22	0.305	0.82	34.4	2	
40045R	50.0	1.11	0.277	0.92	32.2	3	
40011R	50.5	1.26	0.316	0.70	32.7	1	
40063R	67.4	0.96	0.238	1.10	42.0	3	
40012R	68.4	1.49	0.373	0.66	42.6	1	
40046R	68.8	1.31	0.328	0.84	43.0	3	
40029R	68.9	1.45	0.362	0.76	46.7	2	
40013R	99.0	2.23	0.557	0.54	62.0	1	
40030R	99.1	2.16	0.541	0.62	67.8	2	
40064R	99.1	2.26	0.565	0.72	67.8	3	
40047R	101	2.01	0.502	0.68	63.9	3	
40031R	148	2.66	0.665	0.56	97.6	2	
40065R	149	2.78	0.696	0.64	98.9	3	
40048R	150	2.48	0.621	0.64	88.7	3	
40014R	151	3.38	0.844	0.44	94.2	1	
40015R	198	4.83	1.210	0.36	128	1	
40049R	200	2.93	0.732	0.60	114	3	
40066R	200	3.24	0.810	0.60	128	3	
40032R	202	3.80	0.951	0.46	135	2	
40050R	298	3.70	0.926	0.50	168	3	
40067R	299	4.01	1.000	0.54	183	3	
40016R	300	6.40	1.530	0.32	185	1	
40033R	300	4.70	1.180	0.42	193	2	

Note1: Inductance value at 100kHz, 100mV, 0ADC  
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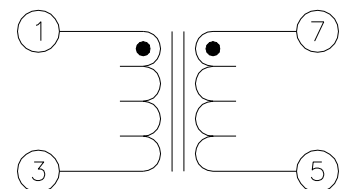
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