



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MPI4040 Power Magnetics Inductor Design Kit



MPI4040 High Current, High Frequency, Miniature Power Inductors

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Powering Business Worldwide



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DK01-19361-R

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MPI4040 Series

High Current, High Frequency Miniature Power Inductors

- Composite core material and construction
- Provides optimum efficiency and power density with reduced losses over -40°C to 125°C operating range
- Completely encloses flux lines for “best-in-class” EMI shielding without the gaps found in “shielded” drum inductors and without exposed wires as with toroidal inductors
- Rugged, flexible construction is highly resistant to shock and vibration environments
- Handles high transient inrush current spikes
- Provides superior EMI shielding
- Substantially lower core loss than iron powder over the operating temperature range



Applications:

- Handheld/mobile devices
- Notebook/netbook
- Portable media players
- Tablets/smartbooks
- GPS/PDAs
- LCD Displays
- Battery operated devices
- LED Drivers
- POL Converters

Resources

- Datasheets: www.eaton.com/elx-datasheets
- Samples: www.eaton.com/elx-samples
- Eaton Tech Support: InductorTech@eaton.com
- Digi-Key Tech Support: Techs@digkey.com

Product Specifications

Part Number	Inductance (μH)	Part Marking Designator	I _{rms} (Amps)	I _{sat} (Amps)	DCR (mΩ)
R1 — 1.2mm height					
MPI4040R1-R10-R	0.09	A	8.00	32.0	8.50
MPI4040R1-R15-R	0.15	B	7.00	26.0	11.0
MPI4040R1-R22-R	0.23	C	5.50	21.0	18.0
MPI4040R1-R33-R	0.33	D	4.40	17.0	28.0
MPI4040R1-R47-R	0.47	E	5.20	11.5	20.0
MPI4040R1-R68-R	0.68	F	3.30	9.00	51.0
MPI4040R1-1R0-R	1.0	G	3.70	7.70	40.0
MPI4040R1-1R5-R	1.5	H	3.00	6.50	60.0
MPI4040R1-2R2-R	2.2	I	2.60	5.90	80.0
MPI4040R1-3R3-R	3.3	J	2.20	5.10	115
MPI4040R1-4R7-R	4.7	K	1.80	3.80	180
MPI4040R1-6R8-R	6.8	L	1.50	3.20	250
MPI4040R1-100-R	10	M	1.20	2.80	370
R2 — 1.5mm height					
MPI4040R2-R47-R	0.47	A	6.40	12.2	13.0
MPI4040R2-1R0-R	1.0	B	4.60	8.90	25.0
MPI4040R2-1R5-R	1.5	C	3.80	7.60	37.0
MPI4040R2-2R2-R	2.2	D	3.20	5.70	58.0
MPI4040R2-3R3-R	3.3	E	2.60	5.40	76.0
MPI4040R2-4R7-R	4.7	F	2.20	4.30	105
MPI4040R2-6R8-R	6.8	G	1.80	3.40	158
MPI4040R2-100-R	10.0	H	1.50	3.10	240
R3 — 1.85mm height					
MPI4040R3-R22-R	0.22	A	8.00	20.0	5.8
MPI4040R3-R47-R	0.47	B	5.80	17.0	10.3
MPI4040R3-1R2-R	1.2	C	4.00	9.40	32.0
MPI4040R3-1R5-R	1.5	D	3.80	8.20	36.0
MPI4040R3-2R2-R	2.2	E	3.40	7.90	48.0
MPI4040R3-3R3-R	3.3	F	3.00	6.60	60.0
MPI4040R3-4R7-R	4.7	G	2.30	4.80	92.0
MPI4040R3-6R8-R	6.8	H	2.00	4.50	120
MPI4040R3-100-R	10.0	I	1.50	3.80	213
MPI4040R3-150-R	15.0	J	1.30	3.00	285
MPI4040R3-220-R	22.0	K	1.10	2.20	408
R4 — 2.0mm height					
MPI4040R4-R22-R	0.22	A	10.1	15.0	5.3
MPI4040R4-R33-R	0.33	B	9.50	12.8	6.0
MPI4040R4-R47-R	0.45	C	8.10	11.5	8.2
MPI4040R4-1R0-R	1.0	D	5.70	8.20	17.0
MPI4040R4-1R5-R	1.5	E	4.90	6.90	23.0
MPI4040R4-2R2-R	2.2	F	3.90	5.70	35.0
MPI4040R4-3R3-R	3.3	G	3.30	4.50	49.0
MPI4040R4-4R7-R	4.7	H	2.90	3.90	67.0
MPI4040R4-6R8-R	6.8	I	2.40	3.20	91.0
MPI4040R4-100-R	10.0	J	1.90	2.60	148
MPI4040R4-220-R	22.0	K	1.30	1.80	316



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