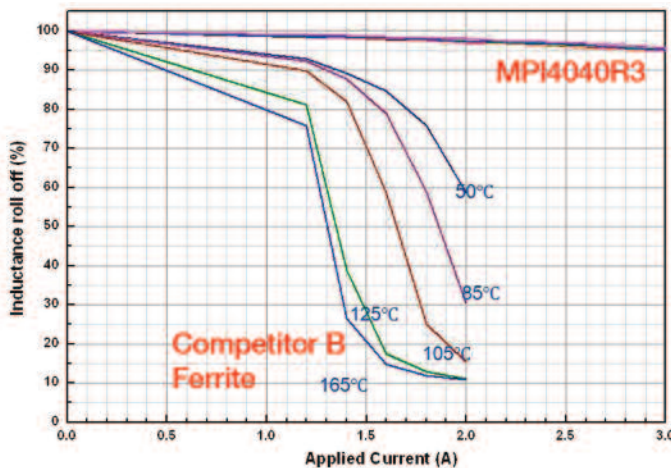
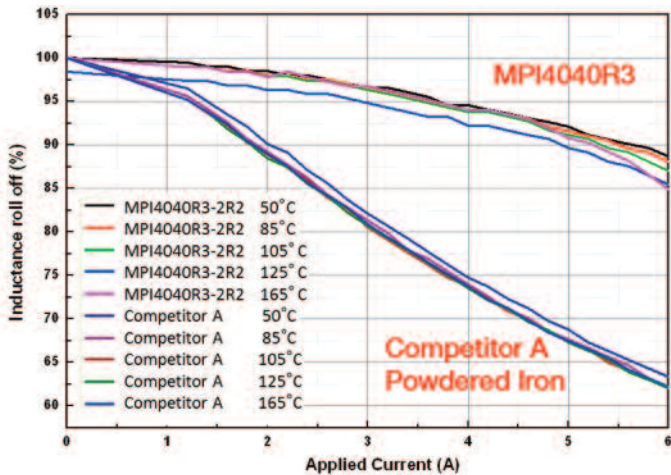


MPI4040 Series Power Inductor

High Peak Current Capability

Take Performance and Application Flexibility to New Levels in a Small Package

- Greater Design Versatility
- Break-Through Core Technology
- Greater Performance
- Environmentally Friendly



Application Benefits

Consumer Electronics

- Operate more efficiently at higher frequencies
- Deliver higher power in a smaller package

Computing

- Composite core material enables high transient inrush currents and eliminates audible noise

Communication

- Excels in power and high frequency filtering
- Magnetically shielded for reduced EMI

Industrial

- Rugged, flexible construction is highly resistant to shock and vibration
- Stable inductance over full temperature range

Typical Applications

- AC/DC – DC/DC Converters
- Voltage Regulator Modules (VRM)
- LED Driver (lighting, backlighting)
- Noise filtering: power supply, EMI/EMC
- LCD Displays
- Point-of-Load converter (POL)
- Motor control /drive

Part Number	OCL ± 20% (µH)	Part Marking Designator	Irms (Amps)	Isat (Amps) @ 25°C	DCR (mΩ) ± 20% @ 20°C
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

* For details, visit www.cooperbussmann.com/Datasheets/Elx for Data Sheet 4086.
† Transient pulse not to exceed 1 millisecond.
†† Maximum operating frequency less than 10MHz, consult factory for application specific values.



Applications

- Handheld/mobile
- GPS Units
- Smartphones
- Notebooks
- Netbooks
- Tablets
- Smartbooks
- LCD Displays
- LED/LCD Drivers
- Wireless cards
- Portable media players
- Wireless reading devices

Online Resources

Go to: www.cooperbussmann.com/Elx for:

- Application notes
- Data sheets
- Inventory search
- Additional products
 - Fuses
 - ESD Suppressors
 - Supercapacitors

Design Kits & Samples

Available to qualified engineers at:

www.cooperbussmann.com/request/index.cfm

Order part number DK01-18740-R.

Technical Application Assistance

Contact our applications engineers, e-mail:

InductorTech@cooperindustries.com

Dimensions - mm

