

P.O. Box 14460
St. Louis, MO 63178-4460
114 Old State Road
Ellisville, MO 63021
Phone: (636) 527-1270



Date: May 18th, 2012
To: Valued Cooper Bussmann Customers
Subject: Product Change Notice (PCN) MPI4040 Series of Miniature Power Inductors

Dear Valued Customer:

Effective May 18th, 2012 Cooper Bussmann extended and revised the MPI4040 Series of Miniature Power Inductors.

Line Extension*:

1. 9 additional values (part numbers) in the original 1.2, 1.5, and 1.8mm heights
2. Added a 2mm height option with 11 additional part numbers

Product Revisions**:

1. Improved I_{sat} and I_{rms} electrical characteristics
2. Changed DCR and OCL tolerance from $\pm 15\%$ to $\pm 20\%$
3. Changed part marking designations

For technical information on the MPI4040 Series, see Data Sheet # 4086 at www.cooperbussmann.com/DatasheetsElx

Cooper Bussmann is committed to providing all customers with high quality products and services. If further information is required regarding this Product Change Notice, please contact your Cooper Bussmann representative. We thank you for your continued support of Cooper Bussmann and the Coiltronics brand of magnetics.

* See Table 1 for part for additional part numbers.

** See Table 1 for I_{rms} , I_{sat} , DCR and OCL changes, See Table 2 for part number marking changes.

Table #1	Previous Values				Revised Values			
PN	OCL uH±15%	ISAT (A)	IRMS (A)	DCR @ 20°C (mΩ)±15%	OCL uH±20%	ISAT (A)	IRMS (A)	DCR @ 20°C (mΩ)±20%
MPI4040R1-R10-R	0.09	32	7.4	8.5	0.09	32.0	8.0	8.5
MPI4040R1-R15-R	0.15	26	6.5	11	0.15	26.0	7.0	11
MPI4040R1-R22-R	0.23	21	5.1	18	0.23	21.0	5.5	18
MPI4040R1-R33-R	0.33	17	4.08	28	0.33	17.0	4.4	28
MPI4040R1-R47-R	0.47	11	3.75	35	0.47	11.5	5.2	20
MPI4040R1-R68-R	0.68	9	3.1	51	0.68	9	3.3	51
MPI4040R1-1R0-R					1.0	7.7	3.7	40
MPI4040R1-1R5-R					1.5	6.5	3.0	60
MPI4040R1-2R2-R					2.2	5.9	2.6	80
MPI4040R1-3R3-R					3.3	5.1	2.2	115
MPI4040R1-4R7-R					4.7	3.8	1.8	180
MPI4040R1-6R8-R					6.8	3.2	1.5	250
MPI4040R1-100-R					10	2.8	1.2	370
MPI4040R2-R47-R	0.47	13.0	4.3	28	0.47	12.2	6.4	13
MPI4040R2-1R0-R	1.0	2.25	3.8	38	1.0	8.9	4.6	25
MPI4040R2-1R5-R	1.5	1.80	2.75	60	1.5	7.6	3.8	37
MPI4040R2-2R2-R	2.2	1.50	2.3	82	2.2	5.7	3.2	58
MPI4040R2-3R3-R	3.3	1.25	1.96	113	3.3	5.4	2.6	76
MPI4040R2-4R7-R	4.5	1.10	1.6	175	4.7	4.3	2.2	105
MPI4040R2-6R8-R					6.8	3.4	1.8	158
MPI4040R2-100-R					10	3.1	1.5	240
MPI4040R3-R22-R	0.22	20.0	8.0	6.4	0.22	20.0	8.0	5.8
MPI4040R3-R47-R	0.47	17.0	5.8	10.3	0.47	17.0	5.8	10.3
MPI4040R3-1R2-R	1.2	9.4	3.8	32	1.2	9.4	4.0	32
MPI4040R3-1R5-R	1.5	8.2	4.0	36	1.5	8.2	3.8	36
MPI4040R3-2R2-R	2.2	7.9	3.4	48	2.2	7.9	3.4	48
MPI4040R3-3R3-R	3.3	6.6	3.0	60	3.3	6.6	3.0	60
MPI4040R3-4R7-R	4.7	4.8	2.3	92	4.7	4.8	2.3	92
MPI4040R3-6R8-R	6.8	4.5	2.0	120	6.8	4.5	2.0	120
MPI4040R3-100-R	10	3.8	1.5	213	10	3.8	1.5	213
MPI4040R3-150-R	15	3.0	1.3	285	15	3.0	1.3	285
MPI4040R3-220-R	22	2.2	1.1	408	22	2.2	1.1	408
MPI4040R4-R22-R					0.22	15.0	10.1	5.3
MPI4040R4-R33-R					0.33	12.8	9.5	6
MPI4040R4-R47-R					0.45	11.5	8.1	8.2
MPI4040R4-1R0-R					1.0	8.2	5.7	17
MPI4040R4-1R5-R					1.5	6.9	4.9	23
MPI4040R4-2R2-R					2.2	5.7	3.9	35
MPI4040R4-3R3-R					3.3	4.5	3.3	49
MPI4040R4-4R7-R					4.7	3.9	2.9	67
MPI4040R4-6R8-R					6.8	3.2	2.4	91
MPI4040R4-100-R					10.0	2.6	1.9	148
MPI4040R4-220-R					22.0	1.8	1.3	316

New, 2.0mm high part numbers.

Table #2	Previous Markings	Revised Markings	
Marketing Change Comparison Table	Old Marking Example: W - Inductance Value X - Bi-Weekly Date Code Y - Last Digit of Year Manufactured Z – Engineering Revision Level	New Marking Example: X - Part Height A - Inductance Value B - Bi-Weekly Date Code C - Last Digit of Year Manufactured D - Engineering Revision Level	
	Part Number	D - Inductance Value	H - Part Height
MPI4040R1-R10-R	A	1	A
MPI4040R1-R15-R	B	1	B
MPI4040R1-R22-R	C	1	C
MPI4040R1-R33-R	D	1	D
MPI4040R1-R47-R	E	1	E
MPI4040R1-R68-R	F	1	F
MPI4040R1-1R0-R		1	G
MPI4040R1-1R5-R		1	H
MPI4040R1-2R2-R		1	I
MPI4040R1-3R3-R		1	J
MPI4040R1-4R7-R		1	K
MPI4040R1-6R8-R		1	L
MPI4040R1-100-R		1	M
MPI4040R2-R47-R	G	2	A
MPI4040R2-1R0-R	H	2	B
MPI4040R2-1R5-R	I	2	C
MPI4040R2-2R2-R	J	2	D
MPI4040R2-3R3-R	K	2	E
MPI4040R2-4R7-R	L	2	F
MPI4040R2-6R8-R		2	G
MPI4040R2-100-R		2	H
MPI4040R3-R22-R	M	3	A
MPI4040R3-R47-R	N	3	B
MPI4040R3-1R2-R	O	3	C
MPI4040R3-1R5-R	P	3	D
MPI4040R3-2R2-R	Q	3	E
MPI4040R3-3R3-R	R	3	F
MPI4040R3-4R7-R	S	3	G
MPI4040R3-6R8-R	T	3	H
MPI4040R3-100-R	U	3	I
MPI4040R3-150-R	V	3	J
MPI4040R3-220-R	W	3	K
MPI4040R4-R22-R		4	A
MPI4040R4-R33-R		4	B
MPI4040R4-R47-R		4	C
MPI4040R4-1R0-R		4	D
MPI4040R4-1R5-R		4	E
MPI4040R4-2R2-R		4	F
MPI4040R4-3R3-R		4	G
MPI4040R4-4R7-R		4	H
MPI4040R4-6R8-R		4	I
MPI4040R4-100-R		4	J
MPI4040R4-220-R		4	K