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**Date: April 19, 2012**  
**To: Cooper Bussmann Coiltronics Customers**  
**Subject: Product Change Notice (PCN) MPI4040 Series of Miniature Power Inductors**

Dear Valued Customer:

Effective April 23, 2012, Cooper Bussmann revised and expanded the MPI4040 Series of Miniature Power Inductors.

Revisions cover\*:

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

Expansion covers\*\*:

1. Addition of 2.0mm height part numbers

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

Regards,

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

\*\* See Table 1 for part for additional part numbers.

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