

Product Change Notification

MAGNETICS



Revised March 12, 2014

Changes to Bourns® Model 1140 High Current Choke Series

Bourns is announcing changes to the [Model 1140 High Current Choke Series](#) including manufacturing location, the core slot radius, marking method, winding polarity mark, Minimum Order Quantity (MOQ), Multiples Quantity (Mult), rated current and the center mounting hole diameter. The complete list of affected part numbers are listed in Table 1 on the following page.

The manufacturing location is being transferred from Guangdong, China to Xiamen, China to help streamline the production process. To improve core production yield and reduce core chipping, the core slot radius has been increased (Figure 1). The marking methods have also been changed from an ink-marking to a more durable laser-marking (Figure 2). Another change is the addition of a winding polarity mark, which indicates the start lead of winding (Figure 2). The Minimum Order Quantity (MOQ) / Multiples Quantity (Mult) has changed from 240/24 to 140/70. Rated current, I_{dc}, is redefined with I_{rms} and I_{sat} (Table 1). Lastly, the center mounting hole diameter has been modified (Figure 3).

Qualification tests include drop and humidity, resistance to soldering heat, solderability, temperature rise, terminal strength and thermal shock. The tests were performed with satisfactory results. Evaluation samples are available upon request.

The appearance (i.e., the form) of component is slightly different due to the changed marking method and core slot modification. There is no impact to the fit, function, quality or reliability of the component.

Implementation dates are as follows:

*We will begin phasing in this process: **June 16, 2014***

*Date that manufacturing of existing products will cease: **June 13, 2014***

First date code using the above changes: 1425

Table 1

Part Number	Before Change	After Change	
	Idc (A)	Irms (A)	Isat(A)
1140-1R8M-RC	27	34.5	80.0
1140-2R2M-RC	27	34.5	80.0
1140-2R7M-RC	27	28.1	80.0
1140-3R3M-RC	27	28.1	80.0
1140-3R9M-RC	27	28.1	80.0
1140-4R7M-RC	27	28.1	80.0
1140-5R6M-RC	27	24.4	80.0
1140-6R8M-RC	27	24.4	73.5
1140-8R2M-RC	27	24.4	70.3
1140-100K-RC	27	21.8	65.3
1140-120K-RC	27	21.8	59.6
1140-150K-RC	27	19.9	53.9
1140-180K-RC	27	17.2	49.2
1140-220K-RC	21	16.2	43.7
1140-270K-RC	21	16.0	39.0
1140-330K-RC	21	15.8	36.5
1140-390K-RC	21	15.1	32.3
1140-470K-RC	14.4	12.3	30.6
1140-560K-RC	14.4	12.0	27.6
1140-680K-RC	14.4	11.4	25.2
1140-820K-RC	14.4	10.9	23.1
1140-101K-RC	14.4	10.5	20.6
1140-121K-RC	14.4	9.9	18.6
1140-151K-RC	11.4	8.3	16.9

Part Number	Before Change	After Change	
	Idc (A)	Irms (A)	Isat(A)
1140-181K-RC	11.4	7.8	15.5
1140-221K-RC	11.4	7.4	14.0
1140-271K-RC	11.4	7.0	12.4
1140-331K-RC	11.4	6.1	11.2
1140-391K-RC	9	5.8	10.4
1140-471K-RC	7.2	4.9	9.5
1140-561K-RC	7.2	4.7	8.6
1140-681K-RC	7.2	4.4	7.9
1140-821K-RC	7.2	4.2	7.2
1140-102K-RC	5.5	3.6	6.5
1140-122K-RC	5.5	3.4	5.9
1140-152K-RC	4.5	2.9	5.3
1140-182K-RC	4.5	2.8	4.9
1140-222K-RC	4	2.4	4.4
1140-272K-RC	4	2.2	3.9
1140-332K-RC	2.8	1.9	3.6
1140-392K-RC	2.8	1.8	3.3
1140-472K-RC	2	1.6	3.0
1140-562K-RC	2	1.3	2.8
1140-682K-RC	1.6	1.2	2.5
1140-822K-RC	1.6	1.2	2.3
1140-103K-RC	1.3	1.0	2.1
1140-123K-RC	1.3	0.9	1.9
1140-153K-RC	1.3	0.9	1.7

Figure 1



Before Change - Small Radius



After Change - Larger Radius

Figure 2

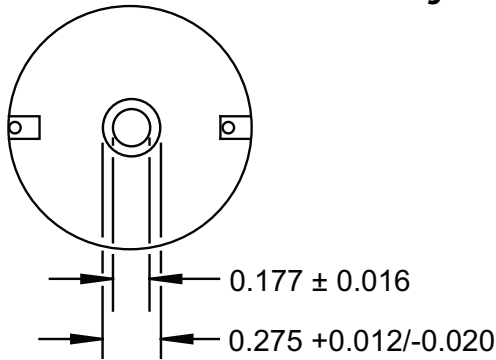


Before Change - with Ink Marking

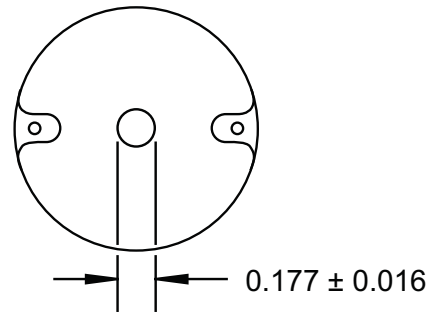


After Change - with Laser Marking and Polarity Mark

Figure 3



*Before Change -
0.177" dia. through-hole with
0.275" dia. shoulder*



*After Change -
0.177" dia. through-hole*

If you have any questions or need additional information, please feel free to contact [Customer Service/Inside Sales](#).