

## Product Change/Obsolescence Notification

### MAGNETIC PRODUCTS



March, 2016

## Changes to Bourns® Model 5800 Series High Current Chokes

Bourns is announcing the following changes to the [Model 5800 Series](#) High Current Chokes.

- 1) **Manufacturing Location:** Products are being transferred from Huilai, China to Shanghai, China to help streamline the production process.
- 2) **Materials:** The core material currently being used on the series will be discontinued. An essentially equivalent replacement material will be used to produce the series. Other materials will be adjusted accordingly, as well.
- 3) **Product Specifications:** Marking, terminal lead diameter, operating temperature range, DCR, and Isat/Irated current are changing. For your convenience, Table 1 and 2 list these changes.
- 4) **Packaging & MOQ/Mult:** The tape and reel packaging will no longer be available (Table 3 lists the part numbers with tape and reel packaging no longer valid). Bulk packaging becomes the only packaging option. As a result of this change, the Minimum Order Quantity (MOQ) / Multiples quantity (Mult) will be affected. For your convenience, Table 2 lists the changes.

Implementation dates are as follows:

*First date code using the above changes: 1626*

*Date that manufacturing of existing products will cease: June 30, 2016*

*Date that deliveries of modified products will begin: July 1, 2016*

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

TABLE 1

| Model       | Marking                                                                                       |                                                                                      | Terminal Lead Diameter |                       | Operating Temperature Range |                |
|-------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------------------|----------------|
|             | Current                                                                                       | Revised                                                                              | Current                | Revised               | Current                     | Revised        |
| 5800 Series | Full part number is marked.<br><br><i>Example:</i><br>P/N: 5800-101-RC<br>Marked: 5800-101-RC | Inductance code is marked.<br><br><i>Example:</i><br>P/N: 5800-101-RC<br>Marked: 101 | 0.025"<br>(0.635 mm)   | 0.0256"<br>(0.650 mm) | -55 to +105 °C              | -40 to +125 °C |

TABLE 2

| Part Number | DCR ( $\Omega$ ) Max. |         | Irated / Irms (A) |                      | Isat (A)       |                      | MOQ / Mult |           |
|-------------|-----------------------|---------|-------------------|----------------------|----------------|----------------------|------------|-----------|
|             | Current               | Revised | Current (Irated)  | Revised (Irms, Max.) | Current (Isat) | Revised (Isat, Max.) | Current    | Revised   |
| 5800-3R9-RC | 0.019                 | 0.015   | 1.28              | 3.1                  | 7.3            | 5.8                  | 200 / 100  | 864 / 864 |
| 5800-4R7-RC | 0.022                 | 0.016   | 1.28              | 3.1                  | 6.3            | 5.4                  | 200 / 100  | 864 / 864 |
| 5800-5R6-RC | 0.024                 | 0.023   | 1.28              | 2.5                  | 5.6            | 5.0                  | 200 / 100  | 864 / 864 |
| 5800-6R8-RC | 0.026                 | 0.026   | 1.28              | 2.4                  | 5.3            | 4.4                  | 200 / 100  | 864 / 864 |
| 5800-8R2-RC | 0.028                 | 0.031   | 1.28              | 2.2                  | 4.5            | 3.9                  | 200 / 100  | 864 / 864 |
| 5800-100-RC | 0.033                 | 0.032   | 1.28              | 2.1                  | 4.1            | 3.6                  | 200 / 100  | 864 / 864 |
| 5800-120-RC | 0.037                 | 0.035   | 1.28              | 2.0                  | 3.6            | 3.4                  | 200 / 100  | 864 / 864 |
| 5800-150-RC | 0.04                  | 0.039   | 1.28              | 1.9                  | 3.3            | 3.0                  | 200 / 100  | 864 / 864 |
| 5800-180-RC | 0.044                 | 0.043   | 1.28              | 1.8                  | 3              | 2.8                  | 200 / 100  | 864 / 864 |
| 5800-220-RC | 0.05                  | 0.051   | 1.28              | 1.7                  | 2.7            | 2.4                  | 200 / 100  | 864 / 864 |
| 5800-270-RC | 0.058                 | 0.066   | 1.28              | 1.5                  | 2.5            | 2.2                  | 200 / 100  | 864 / 864 |
| 5800-330-RC | 0.075                 | 0.090   | 1.008             | 1.3                  | 2.2            | 2.0                  | 200 / 100  | 864 / 864 |
| 5800-390-RC | 0.094                 | 0.097   | 0.804             | 1.2                  | 2              | 1.8                  | 200 / 100  | 864 / 864 |
| 5800-470-RC | 0.109                 | 0.136   | 0.804             | 1.0                  | 1.8            | 1.7                  | 200 / 100  | 864 / 864 |
| 5800-560-RC | 0.14                  | 0.150   | 0.804             | 1.0                  | 1.7            | 1.5                  | 200 / 100  | 864 / 864 |
| 5800-680-RC | 0.145                 | 0.166   | 0.804             | 0.90                 | 1.5            | 1.4                  | 200 / 100  | 864 / 864 |
| 5800-820-RC | 0.152                 | 0.190   | 0.804             | 0.90                 | 1.4            | 1.3                  | 200 / 100  | 864 / 864 |
| 5800-101-RC | 0.208                 | 0.210   | 0.632             | 0.80                 | 1.2            | 1.1                  | 200 / 100  | 864 / 864 |
| 5800-121-RC | 0.283                 | 0.300   | 0.508             | 0.70                 | 1.1            | 1.0                  | 200 / 100  | 864 / 864 |
| 5800-151-RC | 0.34                  | 0.460   | 0.508             | 0.60                 | 1              | 0.90                 | 200 / 100  | 864 / 864 |
| 5800-181-RC | 0.362                 | 0.520   | 0.508             | 0.50                 | 0.95           | 0.90                 | 200 / 100  | 864 / 864 |
| 5800-221-RC | 0.43                  | 0.580   | 0.508             | 0.50                 | 0.86           | 0.80                 | 200 / 100  | 864 / 864 |
| 5800-271-RC | 0.557                 | 0.650   | 0.4               | 0.50                 | 0.77           | 0.70                 | 200 / 100  | 864 / 864 |
| 5800-331-RC | 0.665                 | 0.770   | 0.4               | 0.40                 | 0.7            | 0.60                 | 200 / 100  | 864 / 864 |
| 5800-391-RC | 0.772                 | 0.860   | 0.4               | 0.40                 | 0.64           | 0.60                 | 200 / 100  | 864 / 864 |
| 5800-471-RC | 1.15                  | 1.20    | 0.315             | 0.40                 | 0.59           | 0.50                 | 200 / 100  | 864 / 864 |
| 5800-561-RC | 1.27                  | 1.30    | 0.315             | 0.30                 | 0.54           | 0.50                 | 200 / 100  | 864 / 864 |
| 5800-681-RC | 1.61                  | 1.70    | 0.25              | 0.30                 | 0.49           | 0.40                 | 200 / 100  | 864 / 864 |
| 5800-821-RC | 1.96                  | 1.90    | 0.2               | 0.28                 | 0.44           | 0.40                 | 200 / 100  | 864 / 864 |
| 5800-102-RC | 2.3                   | 2.50    | 0.2               | 0.24                 | 0.4            | 0.36                 | 200 / 100  | 864 / 864 |
| 5800-122-RC | 2.65                  | 2.70    | 0.2               | 0.23                 | 0.35           | 0.33                 | 200 / 100  | 864 / 864 |
| 5800-152-RC | 3.45                  | 3.90    | 0.158             | 0.19                 | 0.33           | 0.29                 | 200 / 100  | 864 / 864 |
| 5800-182-RC | 4.03                  | 4.40    | 0.158             | 0.18                 | 0.29           | 0.27                 | 200 / 100  | 864 / 864 |
| 5800-222-RC | 4.48                  | 5.30    | 0.158             | 0.17                 | 0.27           | 0.24                 | 200 / 100  | 864 / 864 |
| 5800-272-RC | 5.9                   | 6.60    | 0.125             | 0.15                 | 0.24           | 0.22                 | 200 / 100  | 864 / 864 |
| 5800-332-RC | 6.56                  | 8.80    | 0.125             | 0.13                 | 0.22           | 0.20                 | 200 / 100  | 864 / 864 |
| 5800-392-RC | 8.63                  | 9.70    | 0.1               | 0.12                 | 0.2            | 0.18                 | 200 / 100  | 864 / 864 |
| 5800-472-RC | 10.5                  | 12.5    | 0.1               | 0.11                 | 0.18           | 0.17                 | 200 / 100  | 864 / 864 |
| 5800-562-RC | 13.9                  | 13.8    | 0.082             | 0.10                 | 0.166          | 0.15                 | 200 / 100  | 864 / 864 |
| 5800-682-RC | 16.3                  | 17.5    | 0.082             | 0.091                | 0.151          | 0.14                 | 200 / 100  | 864 / 864 |
| 5800-822-RC | 20.8                  | 19.7    | 0.065             | 0.086                | 0.136          | 0.13                 | 200 / 100  | 864 / 864 |
| 5800-103-RC | 26.4                  | 24.0    | 0.05              | 0.076                | 0.125          | 0.11                 | 200 / 100  | 864 / 864 |
| 5800-123-RC | 29.9                  | 27.0    | 0.05              | 0.072                | 0.114          | 0.10                 | 200 / 100  | 864 / 864 |
| 5800-153-RC | 42.5                  | 37.5    | 0.039             | 0.061                | 0.098          | 0.090                | 200 / 100  | 864 / 864 |
| 5800-183-RC | 48.3                  | 41.0    | 0.039             | 0.058                | 0.091          | 0.080                | 200 / 100  | 864 / 864 |

**TABLE 3**

Due to the discontinuation of tape and reel packaging, the following part numbers will no longer be valid.

| <b>Part Number</b> | <b>Part Number</b> | <b>Part Number</b> |
|--------------------|--------------------|--------------------|
| 5800-100-TR-RC     | 5800-183-TR-RC     | 5800-471-TR-RC     |
| 5800-101-TR-RC     | 5800-220-TR-RC     | 5800-472-TR-RC     |
| 5800-102-TR-RC     | 5800-221-TR-RC     | 5800-4R7-TR-RC     |
| 5800-103-TR-RC     | 5800-222-TR-RC     | 5800-560-TR-RC     |
| 5800-120-TR-RC     | 5800-270-TR-RC     | 5800-561-TR-RC     |
| 5800-121-TR-RC     | 5800-271-TR-RC     | 5800-562-TR-RC     |
| 5800-122-TR-RC     | 5800-272-TR-RC     | 5800-5R6-TR-RC     |
| 5800-123-TR-RC     | 5800-330-TR-RC     | 5800-680-TR-RC     |
| 5800-150-TR-RC     | 5800-331-TR-RC     | 5800-681-TR-RC     |
| 5800-151-TR-RC     | 5800-332-TR-RC     | 5800-682-TR-RC     |
| 5800-152-TR-RC     | 5800-390-TR-RC     | 5800-6R8-TR-RC     |
| 5800-153-TR-RC     | 5800-391-TR-RC     | 5800-820-TR-RC     |
| 5800-180-TR-RC     | 5800-392-TR-RC     | 5800-821-TR-RC     |
| 5800-181-TR-RC     | 5800-3R9-TR-RC     | 5800-822-TR-RC     |
| 5800-182-TR-RC     | 5800-470-TR-RC     | 5800-8R2-TR-RC     |

| Model       | Marking                                                 |                                                        | Terminal Lead Diameter |                      | Operating Temperature Range |                |
|-------------|---------------------------------------------------------|--------------------------------------------------------|------------------------|----------------------|-----------------------------|----------------|
|             | Current                                                 | Revised                                                | Current                | Revised              | Current                     | Revised        |
| 5800 Series | Full part number is marked.<br>Example: P/N 5800-101-RC | Inductance code is marked.<br>Example: P/N 5800-101-RC | 0.025"<br>(0.635 mm)   | 0.0256"<br>(0.65 mm) | -55 to +105 °C              | -40 to +125 °C |

| Part Number | DCR ( $\Omega$ ) Max. |         | Irated / Irms (A) |                      | Isat (A)       |                      | MOQ / Mult |           |
|-------------|-----------------------|---------|-------------------|----------------------|----------------|----------------------|------------|-----------|
|             | Current               | Revised | Current (Irated)  | Revised (Irms, Max.) | Current (Isat) | Revised (Isat, Max.) | Current    | Revised   |
| 5800-3R9-RC | 0.019                 | 0.015   | 1.28              | 3.1                  | 7.3            | 5.8                  | 200 / 100  | 864 / 864 |
| 5800-4R7-RC | 0.022                 | 0.016   | 1.28              | 3.1                  | 6.3            | 5.4                  | 200 / 100  | 864 / 864 |
| 5800-5R6-RC | 0.024                 | 0.023   | 1.28              | 2.5                  | 5.6            | 5.0                  | 200 / 100  | 864 / 864 |
| 5800-6R8-RC | 0.026                 | 0.026   | 1.28              | 2.4                  | 5.3            | 4.4                  | 200 / 100  | 864 / 864 |
| 5800-8R2-RC | 0.028                 | 0.031   | 1.28              | 2.2                  | 4.5            | 3.9                  | 200 / 100  | 864 / 864 |
| 5800-100-RC | 0.033                 | 0.032   | 1.28              | 2.1                  | 4.1            | 3.6                  | 200 / 100  | 864 / 864 |
| 5800-120-RC | 0.037                 | 0.035   | 1.28              | 2.0                  | 3.6            | 3.4                  | 200 / 100  | 864 / 864 |
| 5800-150-RC | 0.04                  | 0.039   | 1.28              | 1.9                  | 3.3            | 3.0                  | 200 / 100  | 864 / 864 |
| 5800-180-RC | 0.044                 | 0.043   | 1.28              | 1.8                  | 3              | 2.8                  | 200 / 100  | 864 / 864 |
| 5800-220-RC | 0.05                  | 0.051   | 1.28              | 1.7                  | 2.7            | 2.4                  | 200 / 100  | 864 / 864 |
| 5800-270-RC | 0.058                 | 0.066   | 1.28              | 1.5                  | 2.5            | 2.2                  | 200 / 100  | 864 / 864 |
| 5800-330-RC | 0.075                 | 0.090   | 1.008             | 1.3                  | 2.2            | 2.0                  | 200 / 100  | 864 / 864 |
| 5800-390-RC | 0.094                 | 0.097   | 0.804             | 1.2                  | 2              | 1.8                  | 200 / 100  | 864 / 864 |
| 5800-470-RC | 0.109                 | 0.136   | 0.804             | 1.0                  | 1.8            | 1.7                  | 200 / 100  | 864 / 864 |
| 5800-560-RC | 0.14                  | 0.150   | 0.804             | 1.0                  | 1.7            | 1.5                  | 200 / 100  | 864 / 864 |
| 5800-680-RC | 0.145                 | 0.166   | 0.804             | 0.90                 | 1.5            | 1.4                  | 200 / 100  | 864 / 864 |
| 5800-820-RC | 0.152                 | 0.190   | 0.804             | 0.90                 | 1.4            | 1.3                  | 200 / 100  | 864 / 864 |
| 5800-101-RC | 0.208                 | 0.210   | 0.632             | 0.80                 | 1.2            | 1.1                  | 200 / 100  | 864 / 864 |
| 5800-121-RC | 0.283                 | 0.300   | 0.508             | 0.70                 | 1.1            | 1.0                  | 200 / 100  | 864 / 864 |
| 5800-151-RC | 0.34                  | 0.460   | 0.508             | 0.60                 | 1              | 0.90                 | 200 / 100  | 864 / 864 |
| 5800-181-RC | 0.362                 | 0.520   | 0.508             | 0.50                 | 0.95           | 0.90                 | 200 / 100  | 864 / 864 |
| 5800-221-RC | 0.43                  | 0.580   | 0.508             | 0.50                 | 0.86           | 0.80                 | 200 / 100  | 864 / 864 |
| 5800-271-RC | 0.557                 | 0.650   | 0.4               | 0.50                 | 0.77           | 0.70                 | 200 / 100  | 864 / 864 |
| 5800-331-RC | 0.665                 | 0.770   | 0.4               | 0.40                 | 0.7            | 0.60                 | 200 / 100  | 864 / 864 |
| 5800-391-RC | 0.772                 | 0.860   | 0.4               | 0.40                 | 0.64           | 0.60                 | 200 / 100  | 864 / 864 |
| 5800-471-RC | 1.15                  | 1.20    | 0.315             | 0.40                 | 0.59           | 0.50                 | 200 / 100  | 864 / 864 |
| 5800-561-RC | 1.27                  | 1.30    | 0.315             | 0.30                 | 0.54           | 0.50                 | 200 / 100  | 864 / 864 |
| 5800-681-RC | 1.61                  | 1.70    | 0.25              | 0.30                 | 0.49           | 0.40                 | 200 / 100  | 864 / 864 |
| 5800-821-RC | 1.96                  | 1.90    | 0.2               | 0.28                 | 0.44           | 0.40                 | 200 / 100  | 864 / 864 |
| 5800-102-RC | 2.3                   | 2.50    | 0.2               | 0.24                 | 0.4            | 0.36                 | 200 / 100  | 864 / 864 |
| 5800-122-RC | 2.65                  | 2.70    | 0.2               | 0.23                 | 0.35           | 0.33                 | 200 / 100  | 864 / 864 |
| 5800-152-RC | 3.45                  | 3.90    | 0.158             | 0.19                 | 0.33           | 0.29                 | 200 / 100  | 864 / 864 |
| 5800-182-RC | 4.03                  | 4.40    | 0.158             | 0.18                 | 0.29           | 0.27                 | 200 / 100  | 864 / 864 |
| 5800-222-RC | 4.48                  | 5.30    | 0.158             | 0.17                 | 0.27           | 0.24                 | 200 / 100  | 864 / 864 |
| 5800-272-RC | 5.9                   | 6.60    | 0.125             | 0.15                 | 0.24           | 0.22                 | 200 / 100  | 864 / 864 |
| 5800-332-RC | 6.56                  | 8.80    | 0.125             | 0.13                 | 0.22           | 0.20                 | 200 / 100  | 864 / 864 |
| 5800-392-RC | 8.63                  | 9.70    | 0.1               | 0.12                 | 0.2            | 0.18                 | 200 / 100  | 864 / 864 |
| 5800-472-RC | 10.5                  | 12.5    | 0.1               | 0.11                 | 0.18           | 0.17                 | 200 / 100  | 864 / 864 |
| 5800-562-RC | 13.9                  | 13.8    | 0.082             | 0.10                 | 0.166          | 0.15                 | 200 / 100  | 864 / 864 |
| 5800-682-RC | 16.3                  | 17.5    | 0.082             | 0.091                | 0.151          | 0.14                 | 200 / 100  | 864 / 864 |
| 5800-822-RC | 20.8                  | 19.7    | 0.065             | 0.086                | 0.136          | 0.13                 | 200 / 100  | 864 / 864 |
| 5800-103-RC | 26.4                  | 24.0    | 0.05              | 0.076                | 0.125          | 0.11                 | 200 / 100  | 864 / 864 |
| 5800-123-RC | 29.9                  | 27.0    | 0.05              | 0.072                | 0.114          | 0.10                 | 200 / 100  | 864 / 864 |
| 5800-153-RC | 42.5                  | 37.5    | 0.039             | 0.061                | 0.098          | 0.090                | 200 / 100  | 864 / 864 |

|             |      |      |       |       |       |       |           |           |
|-------------|------|------|-------|-------|-------|-------|-----------|-----------|
| 5800-183-RC | 48.3 | 41.0 | 0.039 | 0.058 | 0.091 | 0.080 | 200 / 100 | 864 / 864 |
|-------------|------|------|-------|-------|-------|-------|-----------|-----------|

| Obsolete Part Numbers |
|-----------------------|
| 5800-100-TR-RC        |
| 5800-101-TR-RC        |
| 5800-102-TR-RC        |
| 5800-103-TR-RC        |
| 5800-120-TR-RC        |
| 5800-121-TR-RC        |
| 5800-122-TR-RC        |
| 5800-123-TR-RC        |
| 5800-150-TR-RC        |
| 5800-151-TR-RC        |
| 5800-152-TR-RC        |
| 5800-153-TR-RC        |
| 5800-180-TR-RC        |
| 5800-181-TR-RC        |
| 5800-182-TR-RC        |
| 5800-183-TR-RC        |
| 5800-220-TR-RC        |
| 5800-221-TR-RC        |
| 5800-222-TR-RC        |
| 5800-270-TR-RC        |
| 5800-271-TR-RC        |
| 5800-272-TR-RC        |
| 5800-330-TR-RC        |
| 5800-331-TR-RC        |
| 5800-332-TR-RC        |
| 5800-390-TR-RC        |
| 5800-391-TR-RC        |
| 5800-392-TR-RC        |
| 5800-3R9-TR-RC        |
| 5800-470-TR-RC        |
| 5800-471-TR-RC        |
| 5800-472-TR-RC        |
| 5800-4R7-TR-RC        |
| 5800-560-TR-RC        |
| 5800-561-TR-RC        |
| 5800-562-TR-RC        |
| 5800-5R6-TR-RC        |
| 5800-680-TR-RC        |
| 5800-681-TR-RC        |
| 5800-682-TR-RC        |
| 5800-6R8-TR-RC        |
| 5800-820-TR-RC        |
| 5800-821-TR-RC        |
| 5800-822-TR-RC        |
| 5800-8R2-TR-RC        |