

## Product Change Notification

### INDUCTIVE COMPONENTS



April, 2016

## Changes to Bourns® Model 5900 Series High Current Chokes

Bourns is announcing the following changes to the [Model 5900 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 used in 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, Tables 1 and 2 list these changes.
- 4) **MOQ/Mult:** As a result of this change, the Minimum Order Quantity (MOQ) / Multiples quantity (Mult) will be affected. For your convenience, Table 2 lists these changes.

Implementation dates are as follows:

*Date that manufacturing of existing products will cease: **October 8, 2016***

*Date that deliveries of modified products will begin: **October 9, 2016***

*First date code using the above changes: **1641***

Product samples are available.

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
5900 Series	Full part number is marked. <i>Example: P/N 5900-101-RC</i> <i>Marked: 5900-101-RC</i>	Inductance code is marked. <i>Example: P/N 5900-101-RC</i> <i>Marked: 101</i>	0.81 mm 0.032 in.	0.80 mm 0.0314 in.	-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
5900-3R9-RC	0.007	0.012	4.0	5.9	15.5	14.4	200 / 100	864 / 864
5900-4R7-RC	0.008	0.014	4.0	5.7	13.9	13.0	200 / 100	864 / 864
5900-5R6-RC	0.011	0.015	4.0	5.4	12.6	11.8	200 / 100	864 / 864
5900-6R8-RC	0.011	0.016	4.0	5.2	11.6	10.8	200 / 100	864 / 864
5900-8R2-RC	0.013	0.017	4.0	5.0	9.89	10.0	200 / 100	864 / 864
5900-100-RC	0.017	0.019	4.0	4.7	8.7	8.7	200 / 100	864 / 864
5900-120-RC	0.019	0.021	4.0	4.6	8.21	8.1	200 / 100	864 / 864
5900-150-RC	0.022	0.025	4.0	4.2	7.34	6.8	200 / 100	864 / 864
5900-180-RC	0.023	0.027	4.0	4.0	6.64	6.2	200 / 100	864 / 864
5900-220-RC	0.026	0.030	4.0	3.8	6.07	5.7	200 / 100	864 / 864
5900-270-RC	0.027	0.032	4.0	3.6	5.36	5.2	200 / 100	864 / 864
5900-330-RC	0.032	0.037	4.0	3.4	4.82	4.6	200 / 100	864 / 864
5900-390-RC	0.033	0.039	4.0	3.3	4.36	4.3	200 / 100	864 / 864
5900-470-RC	0.035	0.045	4.0	3.1	3.98	3.8	200 / 100	864 / 864
5900-560-RC	0.037	0.050	3.2	2.9	3.66	3.5	200 / 100	864 / 864
5900-680-RC	0.047	0.056	2.5	2.8	3.31	3.2	200 / 100	864 / 864
5900-820-RC	0.06	0.078	2.0	2.3	3.1	2.9	200 / 100	864 / 864
5900-101-RC	0.09	0.086	1.6	2.2	2.79	2.7	200 / 100	864 / 864
5900-121-RC	0.113	0.097	1.6	2.1	2.54	2.4	200 / 100	864 / 864
5900-151-RC	0.129	0.110	1.6	2.0	2.22	2.1	200 / 100	864 / 864
5900-181-RC	0.15	0.140	1.6	1.7	1.98	2.0	200 / 100	864 / 864
5900-221-RC	0.162	0.185	1.6	1.5	1.89	1.8	200 / 100	864 / 864
5900-271-RC	0.208	0.210	1.6	1.4	1.63	1.6	200 / 100	864 / 864
5900-331-RC	0.212	0.285	1.6	1.2	1.51	1.4	200 / 100	864 / 864
5900-391-RC	0.281	0.310	1.6	1.2	1.39	1.3	200 / 100	864 / 864
5900-471-RC	0.38	0.420	1.2	1.0	1.24	1.2	200 / 100	864 / 864
5900-561-RC	0.42	0.460	1.0	1.0	1.17	1.1	200 / 100	864 / 864
5900-681-RC	0.548	0.515	1.0	0.90	1.05	1.0	200 / 100	864 / 864
5900-821-RC	0.655	0.580	0.8	0.85	0.97	0.92	200 / 100	864 / 864
5900-102-RC	0.844	0.830	0.8	0.71	0.87	0.83	200 / 100	864 / 864
5900-122-RC	1.04	0.910	0.6	0.68	0.79	0.76	200 / 100	864 / 864
5900-152-RC	1.18	1.33	0.6	0.56	0.7	0.68	200 / 100	864 / 864
5900-182-RC	1.56	1.50	0.6	0.53	0.64	0.62	200 / 100	864 / 864
5900-222-RC	2	1.70	0.5	0.50	0.58	0.56	200 / 100	864 / 864
5900-272-RC	2.06	2.50	0.4	0.41	0.53	0.51	200 / 100	864 / 864
5900-332-RC	2.53	2.80	0.4	0.39	0.47	0.46	200 / 100	864 / 864
5900-392-RC	2.75	3.10	0.4	0.37	0.43	0.42	200 / 100	864 / 864
5900-472-RC	3.19	3.70	0.4	0.34	0.39	0.38	200 / 100	864 / 864
5900-562-RC	3.92	4.10	0.315	0.32	0.359	0.35	200 / 100	864 / 864
5900-682-RC	5.69	5.40	0.25	0.28	0.322	0.32	200 / 100	864 / 864
5900-822-RC	6.32	6.00	0.25	0.26	0.293	0.29	200 / 100	864 / 864
5900-103-RC	7.3	7.60	0.25	0.23	0.266	0.26	200 / 100	864 / 864
5900-123-RC	9.21	8.50	0.2	0.22	0.241	0.24	200 / 100	864 / 864
5900-153-RC	10.5	11.5	0.2	0.19	0.214	0.21	200 / 100	864 / 864
5900-183-RC	14.8	14.0	0.158	0.17	0.198	0.20	200 / 100	864 / 864
5900-223-RC	21.8	18.0	0.125	0.15	0.18	0.18	200 / 100	864 / 864
5900-273-RC	22.7	22.0	0.125	0.14	0.162	0.16	200 / 100	864 / 864
5900-333-RC	25.7	25.0	0.125	0.13	0.146	0.14	200 / 100	864 / 864
5900-393-RC	31.8	31.0	0.1	0.12	0.135	0.13	200 / 100	864 / 864
5900-473-RC	36.1	40.0	0.1	0.10	0.122	0.12	200 / 100	864 / 864
5900-563-RC	40.9	45.0	0.1	0.10	0.112	0.11	200 / 100	864 / 864
5900-683-RC	57.3	58.0	0.082	0.080	0.101	0.10	200 / 100	864 / 864
5900-823-RC	79.3	65.0	0.065	0.079	0.09	0.092	200 / 100	864 / 864
5900-104-RC	89.7	82.0	0.065	0.070	0.081	0.083	200 / 100	864 / 864

Model	Marking		Terminal Lead Diameter		Operating Temperature Range	
	Current	Revised	Current	Revised	Current	Revised
5900 Series	Full part number is marked. Example: P/N 5900-101-RC Marked: 5900-101-RC	Inductance code is marked. Example: P/N 5900-101-RC Marked: 101	0.032" (0.81 mm)	0.0314" (0.80 mm)	-55 to +105 °C	-40 to +125 °C

Part Number	DCR (Ω) Max.		Irated / Irms (A)		Isat (A)		MOQ / Mult	
	Current	Revised	Current (Irated)	Revised (Irms, Max.)	Current (Isat)	Revised (Isat, Max.)	Current	Revised
5900-3R9-RC	0.007	0.012	4.0	5.9	15.5	14.4	200 / 100	864 / 864
5900-4R7-RC	0.008	0.014	4.0	5.7	13.9	13.0	200 / 100	864 / 864
5900-5R6-RC	0.011	0.015	4.0	5.4	12.6	11.8	200 / 100	864 / 864
5900-6R8-RC	0.011	0.016	4.0	5.2	11.6	10.8	200 / 100	864 / 864
5900-8R2-RC	0.013	0.017	4.0	5.0	9.89	10.0	200 / 100	864 / 864
5900-100-RC	0.017	0.019	4.0	4.7	8.7	8.7	200 / 100	864 / 864
5900-120-RC	0.019	0.021	4.0	4.6	8.21	8.1	200 / 100	864 / 864
5900-150-RC	0.022	0.025	4.0	4.2	7.34	6.8	200 / 100	864 / 864
5900-180-RC	0.023	0.027	4.0	4.0	6.64	6.2	200 / 100	864 / 864
5900-220-RC	0.026	0.030	4.0	3.8	6.07	5.7	200 / 100	864 / 864
5900-270-RC	0.027	0.032	4.0	3.6	5.36	5.2	200 / 100	864 / 864
5900-330-RC	0.032	0.037	4.0	3.4	4.82	4.6	200 / 100	864 / 864
5900-390-RC	0.033	0.039	4.0	3.3	4.36	4.3	200 / 100	864 / 864
5900-470-RC	0.035	0.045	4.0	3.1	3.98	3.8	200 / 100	864 / 864
5900-560-RC	0.037	0.050	3.2	2.9	3.66	3.5	200 / 100	864 / 864
5900-680-RC	0.047	0.056	2.5	2.8	3.31	3.2	200 / 100	864 / 864
5900-820-RC	0.06	0.078	2.0	2.3	3.1	2.9	200 / 100	864 / 864
5900-101-RC	0.09	0.086	1.6	2.2	2.79	2.7	200 / 100	864 / 864
5900-121-RC	0.113	0.097	1.6	2.1	2.54	2.4	200 / 100	864 / 864
5900-151-RC	0.129	0.110	1.6	2.0	2.22	2.1	200 / 100	864 / 864
5900-181-RC	0.15	0.140	1.6	1.7	1.98	2.0	200 / 100	864 / 864
5900-221-RC	0.162	0.185	1.6	1.5	1.89	1.8	200 / 100	864 / 864
5900-271-RC	0.208	0.210	1.6	1.4	1.63	1.6	200 / 100	864 / 864
5900-331-RC	0.212	0.285	1.6	1.2	1.51	1.4	200 / 100	864 / 864
5900-391-RC	0.281	0.310	1.6	1.2	1.39	1.3	200 / 100	864 / 864
5900-471-RC	0.38	0.420	1.2	1.0	1.24	1.2	200 / 100	864 / 864
5900-561-RC	0.42	0.460	1.0	1.0	1.17	1.1	200 / 100	864 / 864
5900-681-RC	0.548	0.515	1.0	0.90	1.05	1.0	200 / 100	864 / 864
5900-821-RC	0.655	0.580	0.8	0.85	0.97	0.92	200 / 100	864 / 864
5900-102-RC	0.844	0.830	0.8	0.71	0.87	0.83	200 / 100	864 / 864
5900-122-RC	1.04	0.910	0.6	0.68	0.79	0.76	200 / 100	864 / 864
5900-152-RC	1.18	1.33	0.6	0.56	0.7	0.68	200 / 100	864 / 864
5900-182-RC	1.56	1.50	0.6	0.53	0.64	0.62	200 / 100	864 / 864
5900-222-RC	2	1.70	0.5	0.50	0.58	0.56	200 / 100	864 / 864
5900-272-RC	2.06	2.50	0.4	0.41	0.53	0.51	200 / 100	864 / 864
5900-332-RC	2.53	2.80	0.4	0.39	0.47	0.46	200 / 100	864 / 864
5900-392-RC	2.75	3.10	0.4	0.37	0.43	0.42	200 / 100	864 / 864
5900-472-RC	3.19	3.70	0.4	0.34	0.39	0.38	200 / 100	864 / 864
5900-562-RC	3.92	4.10	0.315	0.32	0.359	0.35	200 / 100	864 / 864
5900-682-RC	5.69	5.40	0.25	0.28	0.322	0.32	200 / 100	864 / 864
5900-822-RC	6.32	6.00	0.25	0.26	0.293	0.29	200 / 100	864 / 864

5900-103-RC	7.3	7.60	0.25	0.23	0.266	0.26	200 / 100	864 / 864
5900-123-RC	9.21	8.50	0.2	0.22	0.241	0.24	200 / 100	864 / 864
5900-153-RC	10.5	11.5	0.2	0.19	0.214	0.21	200 / 100	864 / 864
5900-183-RC	14.8	14.0	0.158	0.17	0.198	0.20	200 / 100	864 / 864
5900-223-RC	21.8	18.0	0.125	0.15	0.18	0.18	200 / 100	864 / 864
5900-273-RC	22.7	22.0	0.125	0.14	0.162	0.16	200 / 100	864 / 864
5900-333-RC	25.7	25.0	0.125	0.13	0.146	0.14	200 / 100	864 / 864
5900-393-RC	31.8	31.0	0.1	0.12	0.135	0.13	200 / 100	864 / 864
5900-473-RC	36.1	40.0	0.1	0.10	0.122	0.12	200 / 100	864 / 864
5900-563-RC	40.9	45.0	0.1	0.10	0.112	0.11	200 / 100	864 / 864
5900-683-RC	57.3	58.0	0.082	0.080	0.101	0.10	200 / 100	864 / 864
5900-823-RC	79.3	65.0	0.065	0.079	0.09	0.092	200 / 100	864 / 864
5900-104-RC	89.7	82.0	0.065	0.070	0.081	0.083	200 / 100	864 / 864