



Power Inductors for Industrial Applications

For industrial applications requiring components that can handle higher power, Bourns has introduced the SRP series, utilizing improvements in materials technology that have reduced DC Resistance (DCR). This series includes 14 models from 7 mm to 13 mm in size, designed for currents up to 50A. Bourns offers both toroidal and radial-lead thru-hole power inductors; the 2100, 2200, and 2300 series are large toroids offered with leads for horizontal or vertical mounting.



Surface-mount SRP

Features ▶

- High-power inductors
- Current rating up to 50A
- 0.1 μH to 47,000 μH
- DCR below 1.0 $\text{m}\Omega$
- Surface-mount and thru-hole
- RoHS compliant

Benefits ▶

- Lower power loss due to low DCR
- Common base size allows higher current rating in same area by increasing height
- Wide range of inductance within models means fewer models to specify
- Surface-mount or thru-hole designs are accommodated

Applications ▶

- Choke in power supplies
- Voltage absorption in motor circuits
- Switch mode power supplies
- Delay circuits
- Filter circuits

Product Specifications ▶

	Series	Mounting (SMT or TH)	Size (mm)	Inductance Range (μH)	Current Range (A)	RoHS Compliant
SRP	SRP1040	SMT	11.8 x 4.2	0.36-8.2	5-28	Yes
	SRP1045	SMT	11.0 x 4.5	0.36-3.2	8-23	Yes
	SRP1050	SMT	10.2 x 5.0	0.1-0.2	30-40	Yes
	SRP1055	SMT	11.0 x 5.5	0.36-8.8	5.6-28	Yes
	SRP1204	SMT	12.5 x 4.0	0.5-1.8	10-13	Yes
	SRP1205	SMT	12.5 x 5.6	0.3-7.2	8.3-18	Yes
	SRP1206	SMT	12.5 x 5.7	0.47-2.8	15-30	Yes
	SRP1235	SMT	13.9 x 3.7	0.1-6.8	9-43	Yes
	SRP1250	SMT	13.9 x 5.9	0.36-10	10-41	Yes
	SRP1255	SMT	13.9 x 5.4	0.68-4.7	12.8-29.7	Yes
	SRP1280	SMT	13.5 x 8.0	0.15-0.44	28-50	Yes
	SRP7030	SMT	7.8 x 7.0	0.10-10	3-32.5	Yes
	SRP7040	SMT	7.2 x 6.8	0.10-0.20	19-30	Yes
	SRP8040	SMT	6.1 x 8.2	0.10-0.22	25-35	Yes
2xxx Series	2000	TH	21.8 x 11.4	10-1000	1.3-10.8	Yes (add "-RC" to P/N)
	2100	TH	24.1 x 14	10-1000	1.8-12.5	Yes (add "-RC" to P/N)
	2200	TH	32.5 x 16.5	10-1000	2.4-20	Yes (add "-RC" to P/N)
RLB9012	RLB9012	TH	9.0 x 12.2	1.0-47,000	0.08-10	Yes



Thru-hole inductor

Arrow Industrial Selector Guide