



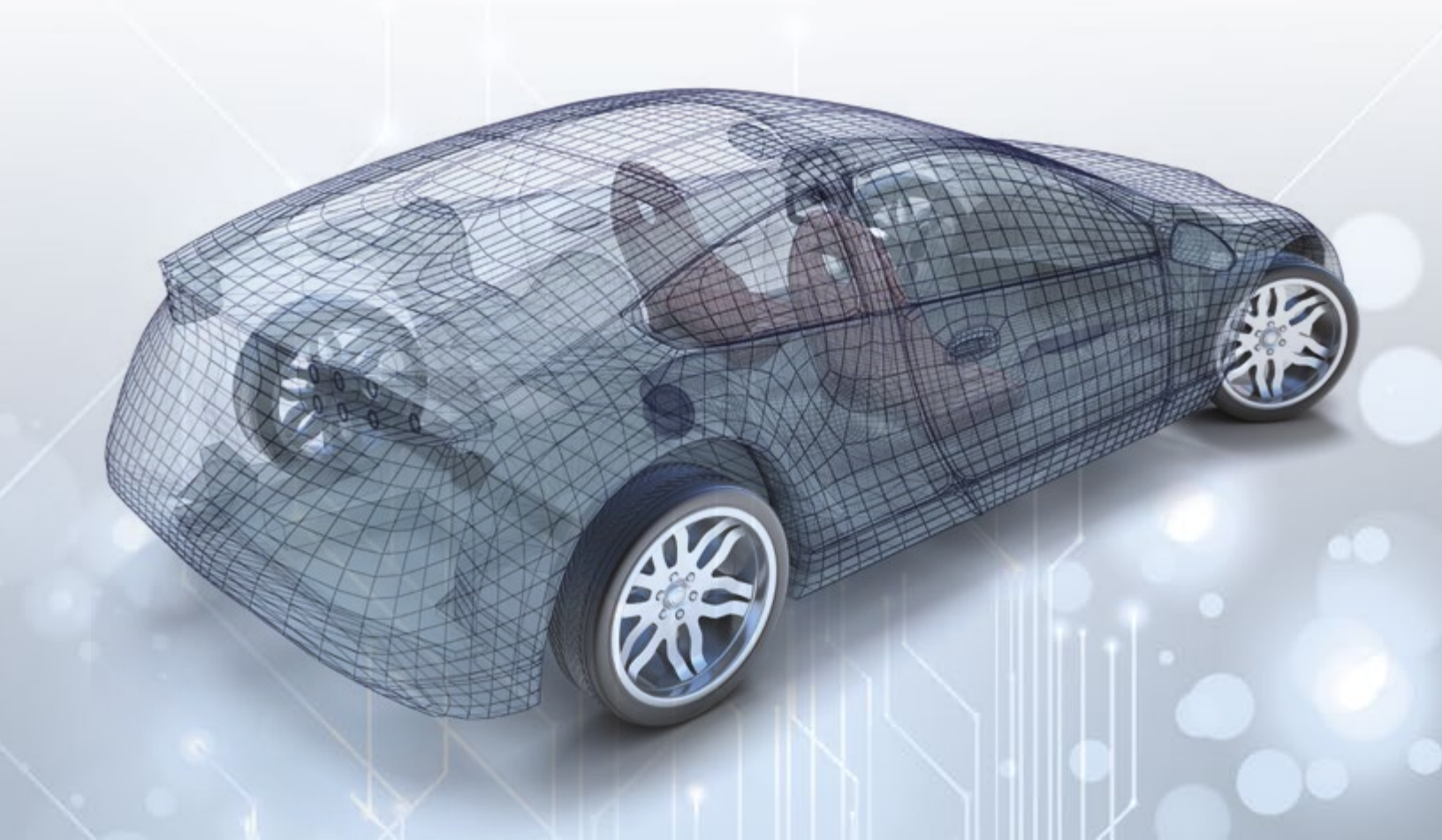
# Introduction



Today's electronic devices have become increasingly power hungry and are operating at higher switching frequencies, starving for speed and shrinking in size as never before. Inductors are a fundamental element in the voltage regulator topology, and virtually every circuit that regulates power in automobiles, industrial and consumer electronics, and in DC/DC converters requires an inductor. Conventional inductor technology has been falling behind in meeting the high performance demand of these advanced electronic devices. As a result, Bourns has developed several inductor models with rated DC current up to 55 A to meet the challenges of the market.




















































































Bourns® inductive components include surface mount chip inductors, power inductors, AEC-Q200 compliant inductors, power chokes and common mode chokes, as well as torroid, radial leaded and axial leaded inductors. These components are used in automotive, computer, communication, consumer, instrumentation, industrial, and low/medium risk\* medical applications.

*\* Bourns® products have not been designed for and are not intended for use in "lifesaving," "life-critical" or "life-sustaining" applications nor any other applications where failure or malfunction of the Bourns® product may result in personal injury or death. See Legal Disclaimer Notice <http://www.bourns.com/docs/legal/disclaimer.pdf>.*






































# SMD High Current, Shielded Power Inductors

## Power Inductors - SRP Series, SMD High Current, Shielded

Model	Photo	Size (mm)			Core		Inductance Range ( $\mu\text{H}$ )					$I_{\text{rms}}$ Current Range (A)				Operating Temperature Range ( $^{\circ}\text{C}$ )	AEC-Q200 Compliant	Automotive Grade
		Length	Width	Height	Ferrite	Metal Alloy	0.1	1	10	100	1000	1	10	100	1000			
<b>PQ Series</b>																		
PQ2614BHA		28	28	16	•			2.2		22	3.2		30	-40 to +155	Yes	Yes		
PQ2614BLA		28	28	16	•			1		33	7.5		30	-40 to +155	Yes	Yes		
PQ2617BHA		28	28	19	•			3.3		33	7.5		28	-40 to +155	Yes	Yes		
<b>SRP 0 Series</b>																		
SRP0310		3.4	3.1	1	•		0.47		4.7		1.8		5.6	-40 to +125	No	N/A		
SRP0312		3.4	3.1	1.2	•		0.47		4.7		1.9		6.6	-40 to +125	No	N/A		
SRP0315		3.4	3.1	1.5	•		0.47		4.7		2.3		9	-40 to +125	No	N/A		
SRP0320		3.4	3.1	2	•		0.47		4.7		2.2		7.4	-40 to +125	No	N/A		
SRP0410		4.4	4.1	1	•		0.47		10		1.4		5.2	-40 to +125	No	N/A		
SRP0412		4.4	4.1	1.2	•		0.47		10		1.7		7.6	-40 to +125	No	N/A		
SRP0415		4.4	4.1	1.5	•		0.47		10		1.9		9.3	-40 to +125	No	N/A		
SRP0420		4.4	4.1	2	•		0.47		10		1.8		10.5	-40 to +125	No	N/A		
SRP0510		5.4	5.1	1	•		0.47		10		1.6		5	-40 to +125	No	N/A		
SRP0512		5.4	5.1	1.2	•		0.47		10		2.1		8.3	-40 to +125	No	N/A		
SRP0515		5.4	5.1	1.5	•		0.47		10		2.4		9.3	-40 to +125	No	N/A		
SRP0520		5.4	5.1	2	•		0.47		10		2.4		12.5	-40 to +125	No	N/A		
SRP0610		7.1	6.7	1	•		0.47		10		2		4.7	-40 to +125	No	N/A		
SRP0612		7.1	6.7	1.2	•		0.47		10		2.7		7.7	-40 to +125	No	N/A		
SRP0615		7.1	6.7	1.5	•		0.47		10		3		12.5	-40 to +125	No	N/A		
SRP0620		7.1	6.7	2	•		0.47		10		3.6		15.5	-40 to +125	No	N/A		
<b>SRP C Series</b>																		
SRP3012C		3.5	3.2	1	•		0.15		10		1.1		10	-40 to +125	No	N/A		
SRP3020C		3.5	3.2	1.8	•		0.1		10		1.3		10	-40 to +125	No	N/A		
SRP5020C		5.7	5.2	1.8	•		0.1		10		2.5		20	-40 to +125	No	N/A		
SRP5030C		5.7	5.2	2.8	•		0.1		10		2.8		25	-40 to +125	No	N/A		
SRP7028C		7.1	6.6	2.8	•		0.1			22	2.2		37	-40 to +125	No	N/A		
SRP1038C		11	10	3.8	•		0.1			47	3.2		53	-40 to +125	No	N/A		
SRP1245C		13.5	12.6	4.7	•		0.15			22	7.5		55	-40 to +125	No	N/A		
SRP1265C		13.5	12.6	6.2	•		0.22			33	8		55	-40 to +125	No	N/A		
SRP1770C		17.8	16.9	6.7	•		0.47			47	8.7		60	-40 to +125	No	N/A		

# Power Inductors - SRP Series, SMD High Current, Shielded


Model	Photo	Size (mm)			Core		Inductance Range ( $\mu\text{H}$ )					$I_{\text{rms}}$ Current Range (A)				Operating Temperature Range ( $^{\circ}\text{C}$ )	AEC-Q200 Compliant	Automotive Grade	
		Length	Width	Height	Ferrite	Metal Alloy	0.1	1	10	100	1000	1	10	100	1000				
<b>SRP A &amp; TA Series</b>																			
SRP2010		2	1.6	1		•	0.24		2.2			1.7		4.5		-40 to +125	No	N/A	
SRP2010DPA		2	1.6	1		•	0.47		4.7			1.1		3.6		-40 to +125	Yes	No	
SRP2510A		2.5	2	1		•	0.22		4.7			1.36		5.9		-40 to +125	Yes	Yes	
SRP2512		2.5	2	1.2		•	0.47		2.2			2.1		4.5		-40 to +125	No	N/A	
SRP2512A		2.5	2	1.2		•	0.47		4.7			1.55		4.6		-40 to +125	Yes	Yes	
SRP3012TA		3.5	2	1.2		•	0.15		10			1		10		-55 to +150	Yes	Yes	
SRP3020TA		3.5	3.2	1.2		•	0.1		10			1.4		10.5		-55 to +150	Yes	Yes	
SRP4012TA		3.5	3.2	2		•	0.1		10			1.3		11.5		-55 to +150	Yes	Yes	
SRP4020TA		4.45	4	1		•	0.1		22			1.2		12		-55 to +150	Yes	Yes	
SRP5015TA		4.45	4	1.8		•	0.15		22			1.2		16		-55 to +150	Yes	Yes	
SRP5020TA		5.7	5.2	1.3		•	0.68		10			2.3		12		-55 to +150	Yes	Yes	
SRP5030T		5.7	5.2	1.8		•	0.33		15			2.1		14		-40 to +125	No	N/A	
SRP5030TA		5.7	5.2	2.8		•	0.1		10			2.75		23		-55 to +150	Yes	Yes	
SRP6530A		5.7	5.2	2.8		•	0.1		10			4		34		-55 to +155	Yes	N/A	
SRP6540		7.1	6.6	3		•	0.56			47		1.6		18		-55 to +125	No	N/A	
SRP7020TA		7	6.6	1.8		•	0.1		10			2.8		21		-55 to +150	Yes	Yes	
SRP7028A		7.2	6.5	4		•	0.1			33		2		32.5		-55 to +150	Yes	Yes	
SRP7050TA		7.3	6.6	2.8		•	0.33			68		1.2		25		-55 to +150	Yes	Yes	
SRP8540A		8.8	8.4	3.8		•	0.22		22			3.9		31		-55 to +150	Yes	Yes	
SRP1038A		7.3	6.6	4.8		•	0.2			47		3		35		-55 to +150	Yes	Yes	
SRP1238A		13.5	12.5	3.3		•	0.1		10			7			43	-55 to +150	Yes	Yes	
SRP1245A		13.5	12.5	4.8		•	0.2		18			6.5			52	-55 to +150	Yes	Yes	
SRP1265A		13.5	12.5	6.2		•	0.15			47		6.5			55	-55 to +150	Yes	Yes	
SRP1770TA		17.3	16.9	6.7		•		1		100		5.3			52	-55 to +150	Yes	Yes	
<b>SRP AA Series</b>																			
SRP7028AA		7.1	6.6	2.8		•	0.15		22			2.5		30		-55 to +155	Yes	Yes	
SRP7050AA		7.3	6.6	4.8		•	0.47			47		2.6		22		-55 to +155	Yes	Yes	
SRP1038AA		11	10	3.8		•	0.15			47		3.5			44	-55 to +155	Yes	Yes	
SRP2313AA		23.5	22	12.6		•		1		100		2.8		70		-55 to +155	Yes	Yes	
<b>SRP CA &amp; FA Series</b>																			
SRP4018FA		4.1	4.1	1.8		•	0.33		1.2			9.5		15		-55 to +155	Yes	Yes	
SRP4020FA		4.1	4.1	2.1		•	0.47		4.7			5.1		13.2		-55 to +155	Yes	Yes	
SRP4030FA		4.1	4.1	2.8		•	0.9		6.8			4		11.2		-55 to +155	Yes	Yes	
SRP5030CA		5.5	5.3	2.9		•	0.15		4.7			5.9		22.2		-55 to +155	Yes	Yes	
SRP5050FA		5.5	5.3	4.8		•		5.6		8.2		6.1		7.2		-55 to +155	Yes	Yes	
SRP6030CA		6.6	6.4	2.9		•	0.18		4.5			7		32		-55 to +155	Yes	Yes	
SRP6050CA		6.6	6.4	4.8		•		1		4.7		8.5		20		-55 to +155	Yes	Yes	
SRP6060FA		6.6	6.4	5.8		•		4.7		22		5		11		-55 to +155	Yes	Yes	
SRP7030CA		7.8	7.6	2.9		•		1		8.2		5.9		21.8		-55 to +155	Yes	Yes	
SRP1510CA		16.5	15.5	9.7		•		4.7			33		13		30		-55 to +155	Yes	Yes
SRP1513CA		16.5	15.5	12.7		•		4.7			33		14		31		-55 to +155	Yes	Yes
SRP1580CA		16.5	15.5	7.7		•		1		5.3			26		58		-55 to +155	Yes	Yes
<b>SRP VA Series</b>																			
SRP6030VA		7.1	6.6	2.8		•	0.47			22		3.4		20		-55 to +180	Yes	Yes	
SRP1040VA		11	10	3.8		•		1			68		3.5		27		-55 to +180	Yes	Yes
<b>SRP WA Series</b>																			
SRP1038WA		11	10	3.8		•	0.47			47		3.6		34		-55 to ~+165	Yes	Yes	
SRP1265WA		13.6	12.6	6.2		•	0.68			47		5.2		36.5		-55 to ~+165	Yes	Yes	

# Surface Mount, Shielded Power Inductors

## Power Inductors - SRR, SRU & SRE Series, SMD Shielded




















































Model	Photo	Size (mm)			Core Ferrite	Inductance Range ( $\mu\text{H}$ )							$I_{\text{rms}}$ Current Range (A)					Operating Temperature Range ( $^{\circ}\text{C}$ )	AEC-Q200 Compliant	Automotive Grade	
		Length	Width	Height		0.1	1	10	100	1,000	10,000	100,000	0.01	0.1	1	10	100				
SRU2009		2.8	2.8	0.9	•		1	22								0.22	1.45		-40 to +125	No	N/A
SRU2011		2.8	2.8	1.1	•		1		33							0.23	1.65		-40 to +125	No	N/A
SRU2013		2.8	2.8	1.35	•		1		47							0.25	2.2		-40 to +125	No	N/A
SRU2016		2.8	2.8	1.65	•		1		100							0.19	2.2		-40 to +125	No	N/A
SRU3011		3.5	3.3	1.1	•		1.5	10								0.4	1.1		-40 to +125	No	N/A
SRU3014		3.5	3.3	1.4	•		1.2	22								0.32	1.85		-40 to +125	No	N/A
SRU3017		3.5	3.3	1.8	•		2.2		47							0.36	1.7		-40 to +125	No	N/A
SRU3028		3.5	3.3	2.8	•			10	100							0.19	0.72		-40 to +125	No	N/A
SRR3818A		3.8	3.8	1.8	•		1		100							0.34	3.6		-40 to +125	Yes	Yes
SRR3011		3.8	3.8	1.8	•		1.5		100							0.18	2.7		-40 to +125	No	N/A
SRR4028		4.8	4.8	2.8	•		1.2			560						0.75		5.1	-40 to +125	N/A	N/A
SRR4018		4.8	4.8	1.8	•		1		180							.25	3.2		-40 to +125	No	N/A
SRR4818A		4.8	4.8	1.8	•		1		47							0.5		5	-40 to +150	Yes	Yes
SRR4011		4.8	4.8	1.15	•	.47			150							0.28		4.8	-40 to +125	Yes	No
SRR4828A		4.8	4.8	2.8	•		1.2		220							0.2	1.8		-40 to +150	Yes	N/A
SRR4528A		5	5	2.8	•		1.2			390						0.3	1.75		-40 to +125	Yes	N/A
SRU5011		5.2	5.2	1.1	•		1.5		100							0.32	2.8		-40 to +125	No	N/A
SRU5016		5.2	5.2	1.6	•		1.8		100							0.47		3.5	-40 to +125	No	N/A
SRU5018		5.2	5.2	1.8	•		1		100							0.13	3		-40 to +125	No	N/A
SRU5028		5.2	5.2	2.8	•		1.2		100							0.23	3		-40 to +125	No	N/A
SRR5028		5.8	5.8	2.8	•		2.6			680						0.1		2.8	-40 to +125	No	N/A
SRR5018		5.8	5.8	1.8	•		1.2		220							0.1		2.2	-40 to +125	No	N/A
SRR0604		6.5	6.5	4.8	•		1.5				2200					0.46		2.6	-40 to +125	No	N/A
SRR0603		6.5	6.5	3.3	•		1.5				1000					0.6		3.2	-40 to +125	No	N/A
SRU6011		6.5	6.2	1.1	•		1.4		68							0.5		3.6	-40 to +125	No	N/A
SRU6013		6.5	6.2	1.4	•		1		68							0.42		4	-40 to +125	No	N/A
SRU6018		6.5	6.2	1.8	•		1.2		100							0.02	0.12		-55 to +125	No	N/A
SRU6025		6.5	6.2	2.5	•		1.2		220							0.02	3		-55 to +125	No	N/A
SRE6603		6.6	4.45	2.92	•					1500		10000				0.65		5	-40 to +125	Yes	N/A
SRR6603		6.6	4.4	3	•		1					10000				0.65		3.5	-40 to +125	No	N/A
SRR6040A		6.7	6.7	4	•		1		100							0.15		6.2	-40 to +125	Yes	N/A
SRR6038		6.8	6.8	3.8	•			3.3	100							0.25		3.5	-40 to +125	No	N/A
SRR6028		6.8	6.8	2.8	•		1.5			1000						0.15		2.65	-40 to +125	No	N/A

# Power Inductors - SRR & SRU Series, SMD Shielded

Model	Photo	Size (mm)			Core Ferrite	Inductance Range (µH)							I <sub>rms</sub> Current Range (A)					Operating Temperature Range (°C)	AEC-Q200 Compliant	Automotive Grade	
		Length	Width	Height		0.1	1	10	100	1,000	10,000	100,000	0.01	0.1	1	10	100				
SRR7045		7	7	4.5	•		1	1000					0.25	3.5		-40 to +125	No	N/A			
SRR7032		7	7	3.2	•		2.2	1000					0.15	2.65		-40 to +125	No	N/A			
SRR0745A		7.3	7.3	4.5	•			10	1000					0.2	2.1		-40 to +125	Yes	N/A		
SRU8028		8	8	2.8	•		1	100							0.75	7		-40 to +125	No	N/A	
SRU8043		8	8	4.3	•		2.2	100							1	5.4		-40 to +125	No	N/A	
SRU8045A		8	8	4.5	•		3.5	100							1	5		-40 to +125	Yes	Yes	
SRR0805		8	10.5	4.7	•		2.2	1000					0.15	2.5		-40 to +125	No	N/A			
SRR0804		8	10.5	3.8	•		5	470							0.16	1.7		-40 to +125	No	N/A	
SRR0908		9.5	10	7.5	•		1.5	15000					0.08	5.6		-40 to +125	No	N/A			
SRR0906		9.5	10	6	•		2.7	10000			0.07	3.2		-40 to +125	No	N/A					
SRR0905		9.9	9.9	4.5	•			10	470							0.33	2.1		-40 to +125	No	N/A
SRR1050A		10	10.2	4.8	•	.68		320							0.73	9.5		-40 to +125	Yes	N/A	
SRU1028		10	10	2.8	•		1	220							0.65	7		-40 to +125	No	N/A	
SRU1038		10	10	3.8	•		1.5	330							0.55	7.2		-40 to +125	No	N/A	
SRU1048		10	10	4.8	•	0.8		560							4.7	7.8		-40 to +125	No	N/A	
SRU1063		10	10	6.5	•		1.6	100							1.1	8		-40 to +125	No	N/A	
SRU1063A		10	10	6.5	•		4.7	100							1.1	5.5		-40 to +125	Yes	Yes	
SRR1005		10	12.7	5.2	•		1	3200							0.1	4.5		-40 to +125	No	N/A	
SRR1003		10.3	12.7	3	•		1.8	470							0.16	3		-40 to +125	No	N/A	
SRR1210A		12	12	10	•		1	1000					0.75	11		-40 to +125	Yes	N/A			
SRR1210		12	12	10	•		1	1000					0.75	11		-40 to +125	No	N/A			
SRR1305		12.5	12.5	5	•	0.9		2.7							6	20		-40 to +125	No	N/A	
SRR1280A		12.5	12.5	7.5	•		4.7	1000							0.68	8.2		-40 to +125	Yes	N/A	
SRR1280		12.5	12.5	7.5	•		1.1	1000					0.68	10.2		-40 to +125	No	N/A			
SRR1260A		12.5	12.5	6	•		1	1000					0.68	9.4		-40 to +125	Yes	N/A			
SRR1260		12.5	12.5	6	•		1	1000					0.68	9.4		-40 to +125	No	N/A			
SRR1240		12.5	12.5	4	•		1	1000					0.42	9.3		-40 to +125	No	N/A			
SRR1208		12.7	12.7	8.5	•		2.5	10000							0.18	7.5		-40 to +125	No	N/A	
SRR1206		12.7	12.7	6.5	•		2.5	1500							0.20	6.2		-40 to +125	No	N/A	
SRR1205		12.7	12.7	5.5	•		2.5	820							0.30	5.5		-40 to +125	No	N/A	
SRR1806		18.3	14	6.8	•			10	1000							0.45	4		-40 to +125	No	N/A

















# Semi-Shielded Power Inductors

## Power Inductors - SRN Series, SMD Semi-Shielded

Model	Photo	Size (mm)			Core Ferrite	Inductance Range ( $\mu\text{H}$ )					$I_{\text{rms}}$ Current Range (A)				Operating Temperature Range ( $^{\circ}\text{C}$ )	AEC-Q200 Compliant	Automotive Grade	
		Length	Width	Height		0.1	1	10	100	1,000	0.1	1	10	100				
SRN2009T		2	1.6	0.95	•	0.33		10				0.5		2.1	-40 to +125	No	N/A	
SRN2010		2	1.6	1.02	•	0.24		2.2					1.7		4.4	-55 to +125	No	N/A
SRN2010TA		2	1.6	1.02	•	0.47		22				0.27		2.35	-40 to +125	Yes	Yes	
SRN2012		2	1.6	1.2	•	0.24		2.2					1.3		3.5	-55 to +125	No	N/A
SRN2012T		2	1.2	1.2	•		1		22			0.24		1.3	-40 to +125	No	N/A	
SRN2508A		2.5	2	0.8	•	0.47		10				0.45		1.45	-55 to +125	Yes	Yes	
SRN2510		2.5	2	1.02	•	0.24		2.2					1.5		3.1	-55 to +125	No	N/A
SRN2510F		2.5	2	1	•	0.24		4.7					1.7		9.5	-55 to +125	No	N/A
SRN2512		2.5	2	1.2	•	0.24		2.2					2.3		4.7	-55 to +125	No	N/A
SRN3010		3	3	1	•		1		47			0.35		2.3	-40 to +125	No	N/A	
SRN3010TA		3	3	1	•		1		22			0.6		2.1	-40 to +125	Yes	Yes	
SRN3012TA		3	3	1.2	•		1		22			0.61		2	-40 to +125	Yes	Yes	
SRN3015		3	3	1.5	•		1		100			0.29		2.35	-40 to +125	No	N/A	
SRN3015TA		3	3	1.5	•		1		47			0.4		2.2	-40 to +125	Yes	Yes	
SRN3030HA		3	3	3	•		1		100			0.25		2.6	-55 to +150	Yes	No	
SRN4012T		4	4	1.2	•	0.47		22				0.62		3.2	-40 to +125	No	N/A	
SRN4012TA		4	4	1.2	•	0.47		22				0.62		3.2	-40 to +125	Yes	Yes	



## Power Inductors - SRN Series, SMD Semi-Shielded








Model	Photo	Size (mm)			Core Ferrite	Inductance Range ( $\mu\text{H}$ )					$I_{\text{rms}}$ Current Range (A)				Operating Temperature Range ( $^{\circ}\text{C}$ )	AEC-Q200 Compliant	Automotive Grade
		Length	Width	Height		0.1	1	10	100	1,000	0.1	1	10	100			
SRN4018		4	4	1.8	•	0.82				330	0.2			4	-40 to +125	No	N/A
SRN4018TA		4	4	1.8	•		1			150	0.27			3.2	-40 to +125	Yes	Yes
SRN4026		4	4	2.5	•		1			220	0.2		3	-40 to +125	No	N/A	
SRN4030HA		4	4	3	•		1			100	0.55			5.5	-55 to +150	Yes	No
SRN5020		5	5	2	•		1			33	0.9			3.6	-40 to +125	No	N/A
SRN5020TA		5	5	2	•		1			47	0.7			4.1	-55 to +125	Yes	Yes
SRN5030HA		5	5	3	•	0.47				100	0.45			7	-55 to +150	Yes	No
SRN5040		5	5	4	•		1.5			47	0.9			3.6	-40 to +125	No	N/A
SRN5040TA		5	5	4	•	0.6				100	0.72			8	-55 to +125	Yes	Yes
SRN6028		6	6	2.8	•	0.9				100	0.66			4.6	-40 to +125	No	N/A
SRN6045TA		6	6	4.2	•		1			220	0.6			8	-55 to +125	Yes	Yes
SRN6045HA		6	6	4.7	•	0.55				100	0.72			7	-55 to +150	Yes	Yes
SRN6045		6	6	4.5	•		1			220	0.6			4.2	-40 to +125	No	N/A
SRN8040		8	8	4	•	0.5				100		1		10	-40 to +125	No	N/A
SRN8040TA		8	8	4.2	•	0.5				330		0.7		12	-55 to +125	Yes	Yes
SRN1060		10	9.8	6	•			10		470	0.8			5.4	-40 to +125	No	N/A

# Surface Mount Non-Shielded Power Inductors

























Power Inductors - SDR & SDE Series, SMD Non-Shielded																			
Model	Photo	Size (mm)			Core	Inductance Range ( $\mu\text{H}$ )						$I_{\text{rms}}$ Current Range (A)					Operating Temperature Range ( $^{\circ}\text{C}$ )	AEC-Q200 Compliant	Automotive Grade
		Length	Width	Height		Ferrite	0.1	1	10	100	1,000	10,000	100,000	0.01	0.1	1			
SDR0302		3	2.8	2.5	•		1	100			1200	0.06	2.1			-40 to +125	No	N/A	
SDE0403A		4.5	4	3.2	•		1	68				0.4	2.7			-40 to +125	Yes	Yes	
SDR0403		4.5	4	3.2	•		1	1000				0.09	3.8			-40 to +125	No	N/A	
SDR0503		5	4.8	3	•			10	1500			0.02	1.3			-40 to +125	No	N/A	
SDE0604A		5.8	5.2	4.5	•		1.2	150			0.52	5.3			-40 to +125	Yes	Yes		
SDR0603		5.8	8.8	3.9	•		1.5	470				0.15	3			-40 to +125	No	N/A	
SDR0604		5.8	8.8	4.8	•		1.2	1000				0.12	4.2			-40 to +125	No	N/A	
SDR0703		6.5	4.5	2.92	•		1	1000				0.08	2.2			-40 to +125	No	N/A	
SDR6603		6.6	4.45	2.92	•		1	1000				0.07	2.9			-40 to +125	No	N/A	
SDE0805A		7.8	7	5	•		1.5	470				0.55	5.8			-40 to +125	Yes	Yes	
SDR7030		7	7	3	•		1	1000				0.15	3			-40 to +125	No	N/A	
SDR7045		7	7	4.5	•		1.2	1000				0.22	3.8			-40 to +125	No	N/A	
SDR0805		7.8	7.8	5.3	•		1.5	4700			0.08	6			-40 to +125	No	N/A		
SDR1006		9.8	9.8	5.8	•		1.5	4700			0.1	6.4			-40 to +125	No	N/A		
SDR1030		10	10	3	•		2.7	1000				0.2	3			-40 to +125	No	N/A	
SDR1045		10	10	4.5	•		2.7	1000				0.38	4.8			-40 to +125	No	N/A	
SDR1005		12.7	10	5	•	0.68		10000				0.1	8.5			-40 to +125	No	N/A	
SDR0906		12.5	10.5	6.3	•		2.2	10000			0.04	4			-40 to +125	No	N/A		
SDR1105		11.1	10	4.8	•			10	200					4			-40 to +125	No	N/A
SDR1005		12.7	10	5	•	0.68		10000			0.1	8.5			-40 to +125	No	N/A		
SDR1305		12.7	12.7	4.8	•		2.5	1000				0.46	7.2			-40 to +125	No	N/A	
SDR1307		13	13	7	•		1.5	1000				0.65	4			-40 to +125	No	N/A	
SDR1307A		13	13	7	•		1.5	1000				0.65	4			-40 to +125	Yes	N/A	
SDR1806		18.3	14	6.6	•		1	1000				0.5	10			-40 to +125	No	N/A	
SDR2207		22	15	7	•	0.78		1000				0.6	16			-40 to +125	No	N/A	

# Common Mode Chokes, Chip Inductors & Line Filters

## Power Inductors - SRF Series, SMD Non-Shielded

Model	Photo	Size (mm)			Core		Inductance Range ( $\mu\text{H}$ )					$I_{\text{rms}}$ Current Range (mA)					Operating Temp Range ( $^{\circ}\text{C}$ )	AEC-Q200 Compliant	Automotive Grade		
		Length	Width	Height	Ferrite	Alloy	0.1	1	10	100	1,000	10,000	0	0.01	0.1	1				10	100
SRF0703		7.6	7.6	3.4	•		0.33	4000					0.128	3.1					-40 to +125	No	N/A
SRF0703A		7.6	7.6	3.4	•			1335					0.211	2.19					-40 to +125	Yes	N/A
SRF1010DA		12.5	9.6	11.3		•	0.43	15						4.6 27					-55 to +155	Yes	Yes
SRF1260		12.5	12.5	6	•		0.47	4000					0.283	8.8					-40 to +125	No	N/A
SRF1260A		12.5	12.5	6	•		0.47	4000					0.283	8.8					-40 to +125	Yes	N/A
SRF1280		12.5	12.5	8	•		0.47	4000					0.283	8.94					-40 to +125	No	N/A
SRF1280A		12.5	12.5	8	•		0.47	4000					0.283	8.94					-40 to +125	Yes	N/A

## Common Mode Chokes, Chip Inductors & Line Filters - SRF & DR Series, SMD Shielded

Model	Photo	Size (mm)			Core		Inductance Range ( $\mu\text{H}$ )					Impedance Range ( $\Omega$ )					$I_{\text{rms}}$ Current Range (mA)					Operating Temp Range ( $^{\circ}\text{C}$ )	AEC-Q200 Compliant	Automotive Grade				
		Length	Width	Height	Ferrite	0.1	1	10	100	1,000	10,000	10	100	1,000	10,000	100,000	0.01	0.1	1	10	100							
<b>Common Mode Chokes &amp; Line Filters</b>																												
DR221		6	3.3	3.3	•		11	50					200	2000					0.1	0.25					-40 to +125	No	N/A	
DR331		9	5.4	4.7	•		11	4700					200	10000					0.2	0.5					-40 to +135	No	N/A	
DR334A		9	5.8	3.6	•		11	4700					300	6000					0.2	0.5					-40 to +135	Yes	No	
SRF0504		4.8	5	4.8	•	0.55		2.5					150	2500					0.2	5					-40 to +125	No	N/A	
SRF0602		6	3.6	1.65	•		10	330					140	900					0.3						-40 to +105	No	N/A	
SRF7035A		7	6	3.5	•		4	22.6					300	3000						1.2 5					-40 to +125	Yes	Yes	
SRF0905		9.2	6	5	•		10	6500					200	5000					0.3	1.6					-40 to +105	No	N/A	
SRF0905A		9.2	6	5	•		10	6500					200	5000					0.3	1.6					-40 to +105	Yes	No	
SRF9045A		9	7	4.5	•		7.5						700							5					-40 to +125	Yes	No	
SRF1006		10	8.7	6.5	•		120						5000	200	6200					0.25	1.4					-40 to +105	No	N/A
SRF1206A		12	11	6	•	0.47		4000					200	1000						.307 8.94					-40 to +125	Yes	No	
SRF1306		9.5	10.5	5.75			3.5	1000					400	2200					0.35	2.7					-40 to +105	No	N/A	
<b>Common Mode Chip Inductors</b>																												
SRF2012A		2	1.2	1.2	•						300	900						0.1 0.4					-55 to +125	No	N/A			
SRF2012A-80Y		2	1.2	1.2	•							800						0.3					-55 to +125	Yes	Yes			
SRF2012AA		2	1.2	1.2	•						67	360						0.3 0.4					-55 to +125	Yes	Yes			
SRF3216		3.2	1.6	2	•						90	2200						0.2 0.4					-40 to +125	No	N/A			
SRF3216A		3.2	1.6	2	•						90	2200						0.2 0.4					-55 to +125	Yes	Yes			
SRF3225AB		3.2	2.5	2.5	•							5500						0.1					-40 to +125	Yes	Yes			
SRF3225TAC		3.2	2.5	2.5	•						550	5100						0.15 0.3					-40 to +125	Yes	Yes			
SRF3225TAFD		3.2	2.5	2.5	•							5100						0.15					-40 to +125	Yes	Yes			
SRF3225TABM		3.2	2.5	2.5	•							10000						0.7					-40 to +125	Yes	Yes			
SRF4530A		4.5	3.2	2.5	•						600	7500						0.2 0.36					-55 to +150	Yes	Yes			
SRF4530AG		4.5	3.2	2.5	•							1100						0.1					-55 to +150	Yes	Yes			
SRF4532		4.5	3.2	2.8	•						700	5000						0.2 0.3					-40 to +125	No	N/A			

# Worldwide Sales Offices

Country/Region	Phone	Email
Americas:	+1-951-781-5500	americus@bourns.com
Brazil:	+55 11 5505 0601	americus@bourns.com
China:	+86 21 64821250	asiacus@bourns.com
Europe, Middle East, Africa:	+36 88 885 877	eurocus@bourns.com
Japan:	+81 49 269 3204	asiacus@bourns.com
Korea:	+82 70 4036 7730	asiacus@bourns.com
Singapore:	+65 6348 7227	asiacus@bourns.com
Taiwan:	+886 2 25624117	asiacus@bourns.com
Other Asia-Pacific Countries:	+886 2 25624117	asiacus@bourns.com

Technical Assistance Region	Phone	Email
Asia-Pacific:	+886 2 25624117	techweb@bourns.com
Europe, Middle East, Africa:	+36 88 885 877	eurotech@bourns.com
Americas:	+1-951-781-5500	techweb@bourns.com

**BOURNS®**

[www.bourns.com](http://www.bourns.com)

Bourns® products are available through an extensive network of manufacturer's representatives, agents and distributors. To obtain technical applications assistance, a quotation, or to place an order, contact a Bourns representative in your area.

Specifications subject to change without notice. Actual performance in specific customer applications may differ due to the influence of other variables. Customers should verify actual device performance in their specific applications.