

**BOURNS®**

**Power Inductors**

# Overview

- Founded in 1947, Bourns, Inc. is a leading provider of components and solutions for Motion Control, Circuit Protection and Circuit Conditioning
- Privately held company headquartered in Riverside, California
- Approximately 5100 employees with 14 worldwide manufacturing centers for electronic products
- All manufacturing centers are ISO 9001 and/or TS16949 certified



# Global Manufacturing



Osaka, Japan



Chihuahua, Mexico



Tijuana, Mexico



Suzhou, China



Fukui, Japan



Xiamen, China



Heredia, Costa Rica



Bedford, UK



Xiang'an, China



Ajka, Hungary



Okayama, Japan



Linkou, Taiwan



Logan UT, U.S.A.



Shiga, Japan

*ISO 9001, ISO 14001 and ISO/TS 16949 certified.*

**BOURNS®**

# Major Customers

Customer	OEM Customer
GM Chassis & GM Powertrain	General Motors (GM)
Ford	Ford
Continental	Chrysler, VW, Audi, BMW
ZFLS	GM, VW, BMW
Hyundai Mobis	Hyundai, Kia
American Axle	GM
TRW	GM, Ford
Timken	Chrysler, GM, Ford
Delphi	GM
Pierburg	Opel, Fiat
Bosch	Honda, GM, Opel, Fiat, DCX, Nissan, Volvo

Customer	OEM Customer
Magneti Marelli	Opel, Fiat, PSA, Audi, Harley Davidson
Arvin Meritor	Various Heavy Truck
Knorr Bremse	Various Heavy Truck
Valeo	Mercedes
Mando	GM
Williams Controls	Volvo, Hyundai, CAT
Visteon	Ford, Jaguar, Mazda
Borg Warner	Ford, DCX
Dura	GM, Chrysler
Hella	GM, Ford, Audi, Nissan, Kia
ASMO	Nissan, HY, Toyota, VW

# Automotive Component Applications



## Comfort & Positioning

*Window Lifts, Seat Positioning*

## Instrumentation, Infotainment & Telematics

*Dashboards, GPS, In-Car Cameras, In-Car Televisions*

## Vehicle Lighting

*HID, LED*

## Vehicle Networks

*CAN, Flexray, Ethernet, LIN*

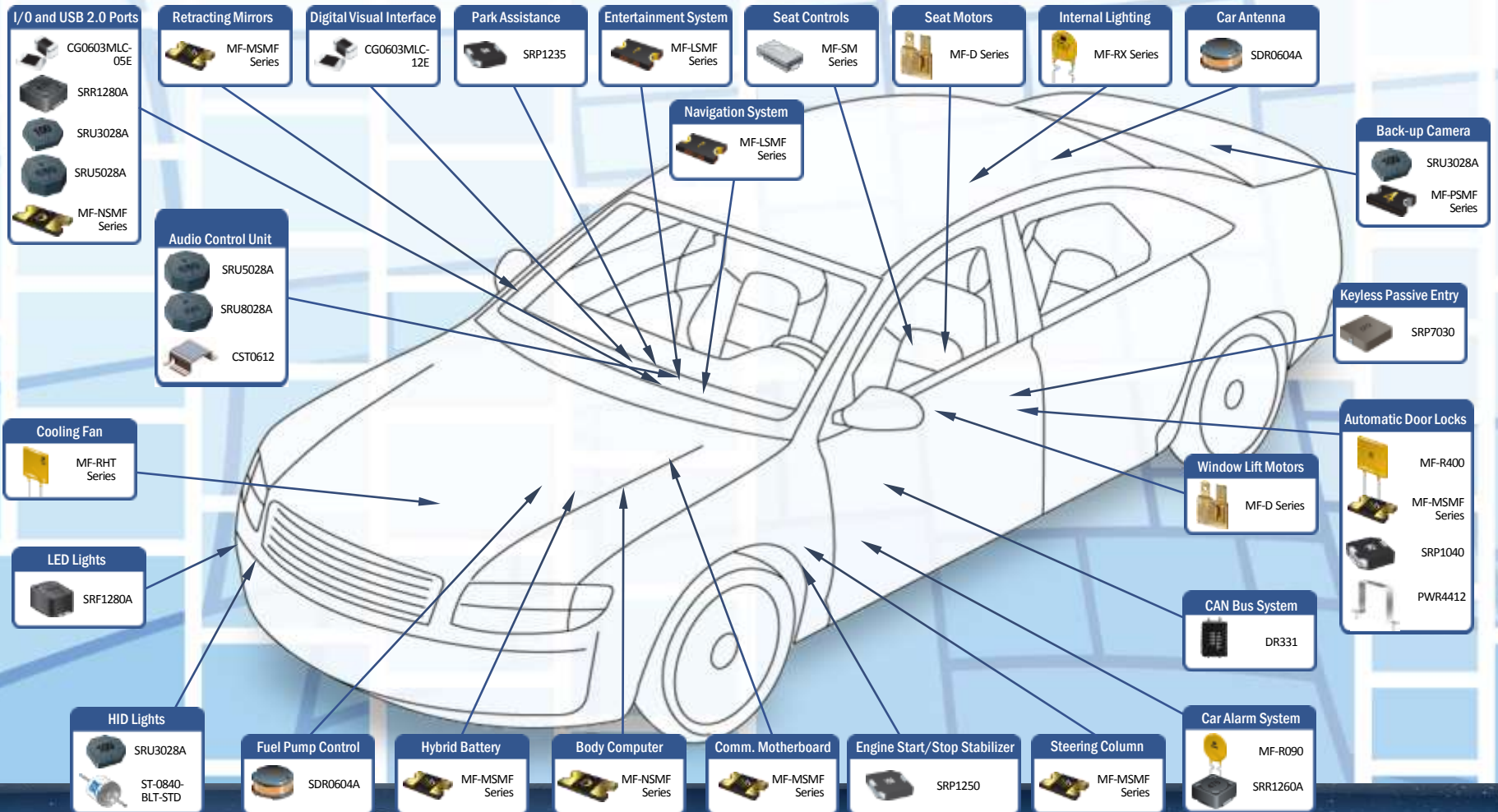
## Electrification of Powertrain

*Fuel Pumps, Start Stop Module, High Power DC/DC Convertors, Battery Chargers*

## Bourns Value Proposition

- AEC-Q200 qualification – PPTC, inductors, resistors & MLVs
- TS16949 quality system
- Application test lab

# Board Level Components for Automotive Applications



# Bourns® Inductors

**J.W. Miller**  
MAGNETICS  
A Bourns Company

Through-hole

Standard

High Current

Axial Series

Radial Series

Axial Series

Radial Series

Toroid Series

Common Mode Series



SMD

Dual Chokes (CMC)

Chip Inductors

Power Chokes

CMC

Signal Line

Multilayer

Wirewound

Non-Shielded

Semi-Shielded

Shielded

High Current

Sector W.  
Bifilar W.

Ferrite

Ceramic

SRF Series

DR331  
DR221

Standard  
CS Series

Standard  
CI Series

Open  
CW Series

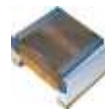
Sealed  
CM Series

SDR Series

SRN Series

SRR Series  
SRU Series

SRP Series



**BOURNS®**

# Inductors

Shielded →

## SRP High Current models

- Size from 4 to 13mm
- 11 models (2 models with toroid)
- Inductance Range, 0.1uH to 15uH
- Current up to 60A
- E12/6 Series
- Lab Kit available SRP-LAB1, SRP-LAB2
- In preparation 2 and 2.5mm size SRP2012, SRP2512 Q2/14
- SRP1038A, SRP1238A, SRP1245A, SRP1265A, SRP7028A introduction, Q2 2014
- Plan for additional 3 SRP Lab-Kits with the new models Q2/3





# Inductors

Shielded →

## SRP High Current models

### Core Materials

- Sendust: SRP4012, SRP4020, SRP7030F
- Iron: SRP7030, SRP1040, SRP1235, SRP1250, SRP1270
- Ferrite: SRP1045, SRP1055, SRP1204, SRP1205, SRP1206



# Bourns® Inductors for Automotive Buck Converters and EMI Filtering

- SRP7030 2.2  $\mu\text{H}$  I peak 12 Amps
- Small Form Factor (7.8 x 7.0 mm)
- AEC-Q200 Test Reports Available
- **SRP Series**
  - High Current Shielded Inductors
  - 0.1 – 10  $\mu\text{H}$
  - Up to 50 A
  - Operating Temperature Up to 150 ° C



# Inductive Components - Automotive

## Recommended Products

High Current Power Inductors      SRP Series

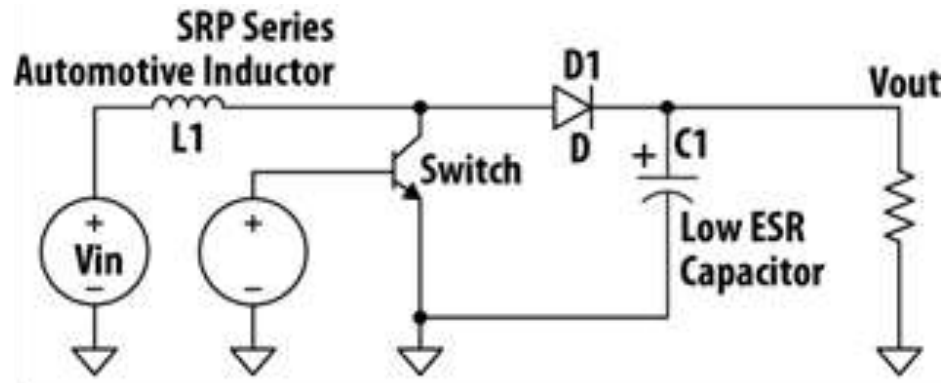


These series are produced in the factory with ISO/TS16949 certificate available or in process; for many models there is the PAPP level 3 available.

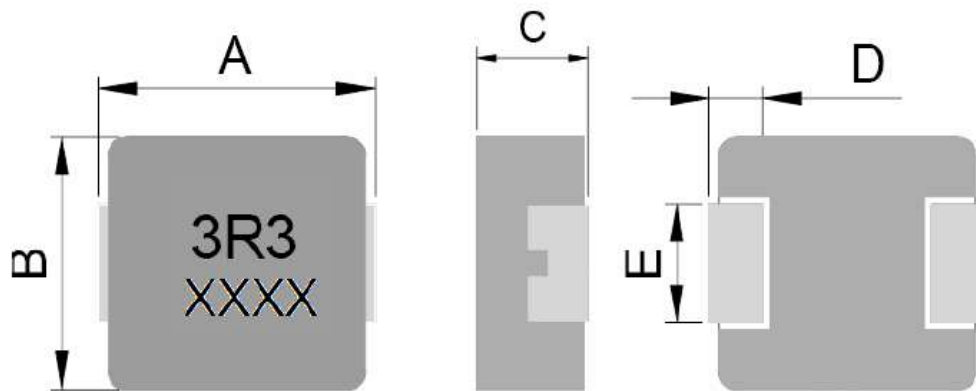
PART NO.	Inductance L0 (uH)	Rdc (mΩ) typ.	Rdc (mΩ) max.	Irms(A) typ.	Isat(A) typ.
	±20% @0A	@25°C	@25°C		
SRP1265-1R0M	1.0	1.7	2.3	30	48
SRP1265-3R3M	3.3	5.7	6.8	18	30

- 100% Drop in for Vishay IHLP5050

# Bourns Inductor in Start Stop DC DC Converter

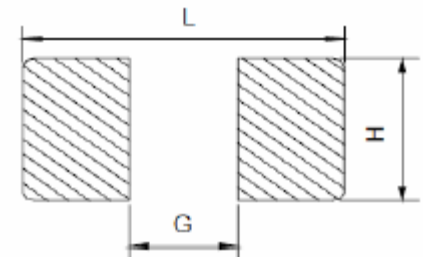


## Basic Functional Diagram of DC DC Boost Converter



Chip Size:mm

- A: 13.5±0.5
- B: 12.5±0.3
- C: 6.2±0.3
- D: 2.3±0.3
- E: 4.7±0.3
- G: 8.0
- H: 5.0
- L: 14.2



# Inductors

## Shielded →

## SRP High Current models

- Introduction Q2 2014
  - 5 SRP High Current models
    - SRP5030T series 5.2mm x 3.0mm (introduced April 2013)
    - SRP6540 series 6.5mm x 4.0mm (introduced April 2013)
    - SRP7028A series 7.0mm x 3.2mm (AEC Q200 tested)
    - SRP1038A series 10mm x 1.0mm (AEC Q200 tested)
    - SRP1238A, 1245A, 1265A series 12mm x 3.8, 5, 7mm (AEC Q200 tested)
    - SRP2012, 2512 series 2, 2.5mm x 1.2mm
    - SRP4012TA, 4020TA series 4mm x 1.2 , 2mm (AEC Q200 tested)
  - Plan is to replace the models having a «clip» with models «without the clips». The «clip» version has an additional piece part, which may some quality issue during soldering, the clip can «move», possible risk for a short on the PCB :

- SRP7030 → SRP7028A
- SRP1040 → SRP1038A
- SRP1235 → SRP1238A
- SRP1250 → SRP1245A
- SRP1270 → SRP1265A

- Main Competitors

- Vishay, Toko, TTE, Cynotec

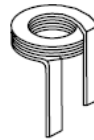


# Inductors

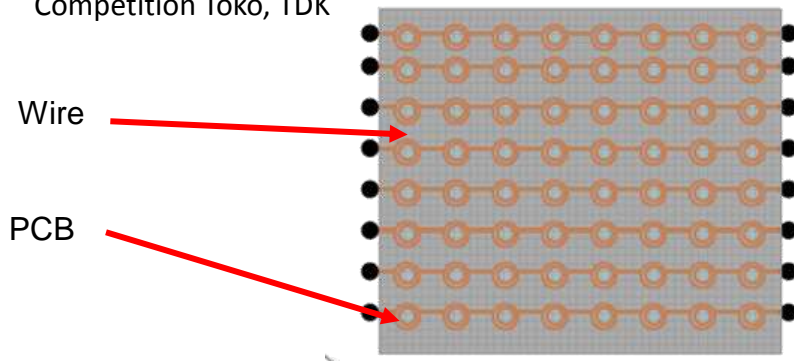
## Shielded →

## SRP High Current models

- Present Products
  - 4mm size to 12mm size
  - 11 models available, 9 planned to introduce Q2 2014
  - Round wire or Flat wire used then molded by Iron Power or Sundust
  - Single unit production.



- New technology for smaller models SRP2012, SRP2512
  - 2.5mm and 2.0mm sizes (introduction planned Q2 2014)
  - Wire on a PCB Array (like Multilayer Chip Inductors)
  - Many «units» on a PCB, then molded, cut and print terminals
  - Competition Toko, TDK



Finished units with terminals



# Inductors

## Automotive → SMD Power Inductors/CMC

- Introduced Q3 2013 : 13 AEC Q200 tested series

- SDE1006A      10mm x 6mm    Standard model → SDR1006
- SDR1307A      13mm x 7mm    Standard model → SDR1306
- SRR0735A      7mm x 3.5mm   Standard model → SRR7032
- SRR1260A      12mm x 6mm    Standard model → SRR1260
- SRR1280A      12mm x 8mm    Standard model → SRR1280
- SRU3028A      3mm x 2.8mm   Standard model → SRU3028
- SRU5028A      5mm x 2.8mm   Standard model → SRU5028
- SRU6025A      6mm x 2.5mm   Standard model → SRU6025
- SRU8028A      8mm x 2.8mm   Standard model → SRU8028
- SRU1028A      10mm x 2.8mm   Standard model → SRU1028
- SRU1038A      10mm x 3.8mm   Standard model → SRU1038
- SRU1048A      10mm x 4.8mm   Standard model → SRU1048
- SRF1260A      10mm x 6mm    Standard model → SRF1260

# Inductors

Automotive →

SMD Power Inductors/CMC

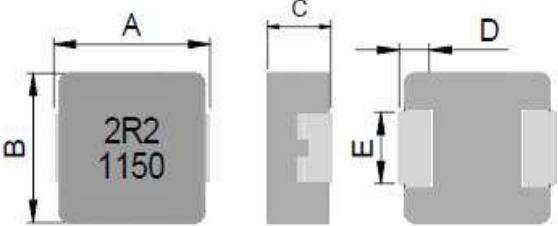
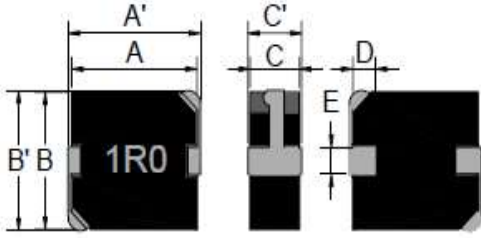
- Additional 10 models planned for Q2 2014, AEC Q200 tested series

- SDE0403A      4mm x 3mm    Standard model → SDR0403
- SDE0604A      6mm x 4mm    Standard model → SDR0604
- SDE0805A      8mm x 5mm    Standard model → SRR0805
- SRR0745A      7mm x 4.5mm Standard model → SRR7045
- SRR0905A      9mm x 5mm    Standard model → SRR0905
- SRR6040A      6mm x 4mm    Standard model → SRR6038
- SRR1210A      12mm x 10mm Standard model → SRR1210
- SRF0703A      7mm x 3mm    Standard model → SRF0703
- SRF0905A      9mm x 5mm    Standard model → SRF0905
- SRF1280A      12mm x 8mm    Standard model → SRF1280



# SRP Series Comparison

# Product Features

	SRP "A" Series (New Type product)	SRP Series (Old Type product)
Features	1. Carbonyl powder inductor.	1. Lowest height in this package footprint.
	2. Compact design.	2. Shielded construction.
	3. High current , low DCR , high efficiency.	3. Lowest DCR/ $\mu$ H, in this package size.
	4. Very low acoustic noise and very low leakage flux noise	4. Handles high transient current spikes without saturation.
	5. High reliability.	5. Ultra low buzz noise, due to composite construction.
	6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.	6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
Applications	Note PC power system , incl. IMVP-6 DC/DC converter.	Excellent for power line DC-DC conversion applications used in power switching, personal computers and other handheld electronic equipment.
Appearance		

## Part Number contain SRP “A” Series (New Type product)

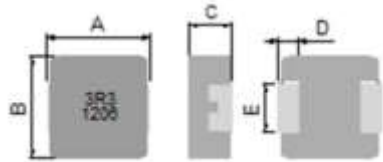
Series	Items
SRP1265A	R15,R22,R30,R33,R36,R40,R45,R47,R50,R56,R68,R82,1R0,1R5,1R8,2R2,3R3,4R7,5R6,6R8,7R0,8R2,100,120,130,150,220,330,470
SRP1238A	R10,R15,R22,R33,R36,R45,R47,R56,R60,R67,R68,R82,1R0,1R2,1R5,1R8,2R2,3R3,4R7,5R6,6R8,8R2,100
SRP1245A	R20,R22,R33,R36,R39,R47,R50,R56,R68,R82,1R0,1R2,1R5,1R8,2R2,3R3,4R7,5R6,6R0,6R8,8R2,100,150,180,220
SRP7028A	R10,R13,R15,R16,R18,R19,R20,R22,R25,R33,R36,R40,R47,R56,R60,R68,R75,R82,R90,1R0,1R2,1R5,1R8,2R0,2R2,2R5,2R7,3R3,4R7,5R6,6R8,8R2,100,120,150,180,220,330,470
SRP1038A	R15,R19,R22,R24,R27,R30,R36,R39,R45,R47,R56,R68,R88,1R0,1R2,1R5,1R8,2R2,2R5,3R0,3R3,3R9,4R0,4R7,5R6,6R2,6R8,8R2,100,150,180,220,270,330,470,680
SRP5030T	R15,R20,R25,R33,R47,R56,R68,R82,1R0,1R2,1R5,2R2,3R3,4R7,5R6,6R8,100,150,220
SRP4012TA	R10,R22,R33,R36,R47,R60,R68,1R0,1R2,1R5,2R2,3R3,4R7,5R6,6R8,8R2,100,150
SRP4020TA	R10,R18,R22,R33,R36,R47,R56,R68,1R0,1R2,1R5,2R2,3R3,4R7,5R6,6R8,8R2,100,150,220

# Part Number contain SRP Series (Old Type product)

Series	Items
SRP1270	R20,R36,R68,1R0,2R2,3R3,4R7,5R6,6R8,8R2,100
SRP7030 / PM7232S	R20,R36,R68,1R0,2R2,3R3,4R7,5R6,6R8,8R2,100
SRP1040	R20,R36,R68,1R0,2R2,3R3,4R7,5R6,6R8,8R2,100
SRP1235	R20,R36,R68,1R0,2R2,3R3,4R7,5R6,6R8,8R2,100
SRP1250	R36,R47,R56,R68,R82,1R0,1R5,2R2,3R3,4R7,6R8,100

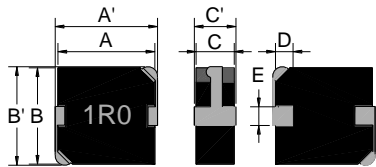
# Product Dimension

## SRP "A" Series (New Type Product)



Dim.	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SRP1265A	13.5±0.5	12.5±0.3	6.2±0.3	2.3±0.3	4.7±0.3
SRP1238A	13.5±0.5	12.5±0.3	3.3±0.2	2.3±0.3	4.7±0.3
SRP1245A	13.5±0.5	12.5±0.3	4.8±0.2	2.3±0.3	4.7±0.3
SRP7028A	7.3±0.3	6.6±0.3	2.8±0.2	1.8±0.3	3.0±0.3
SRP1038A	11.0±0.5	10.0±0.3	3.8±0.2	2.3±0.3	3.0±0.3
SRP5030T	5.7±0.3	5.2±0.2	2.8±0.2	1.1±0.3	1.5±0.2
SRP4012TA	4.45±0.25	4.06±0.25	1.0±0.2	0.76±0.30	2.0±0.20
SRP4020TA	4.45±0.25	4.06±0.2	1.8±0.2	0.76±0.30	2.0±0.20

## SRP with clip (Old Type Product)



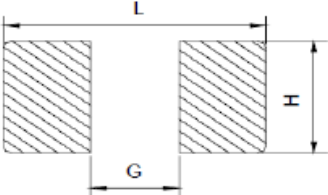
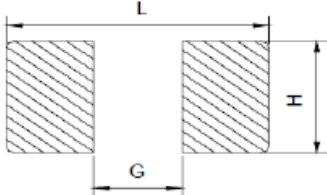
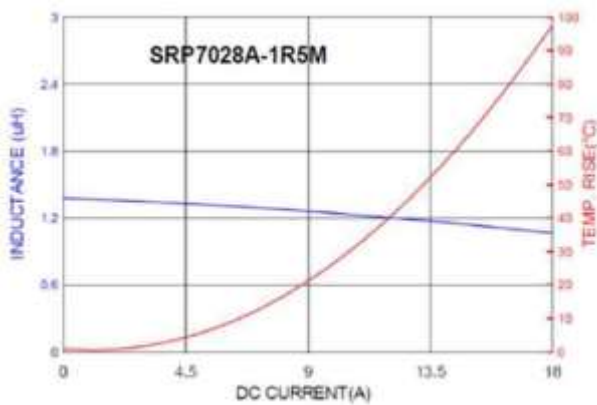
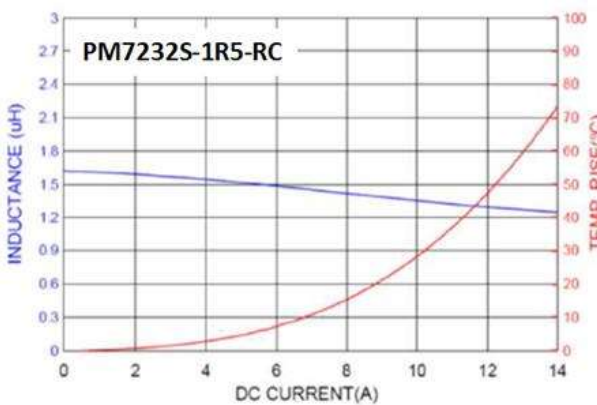
Dim.	A(mm)	A'(mm)	B(mm)	B'(mm)	C(mm)	C'(mm)	D(mm)	E(mm)
SRP1270	12.9max.	13.7max.	12.9max.	13.7max.	6.5typ.	7.0 max	2.5±0.5	3.0±0.5
SRP7030 PM7232S	6.86±0.5	7.8 max.	6.47±0.5	7.0 max.	3.0 max.	3.2 max.	1.6±0.5	2.1±0.5
SRP1040	10.7±0.5	11.8 max.	10.0±0.5	10.5 max.	4.0 max.	4.2 max.	2.2±0.5	2.9±0.5
SRP1235	12.7±0.3	13.9 max.	12.7±0.3	13.5 max.	3.5 max.	3.7 max.	2.5±0.5	3.0±0.5
SRP1250	12.7±0.3	13.9max	12.7±0.3	13.5max	5.0max	5.2max	2.5 ± 0.5	3.0 ± 0.5

# SRP7028A & PM7232S Series Comparison

# Product Features

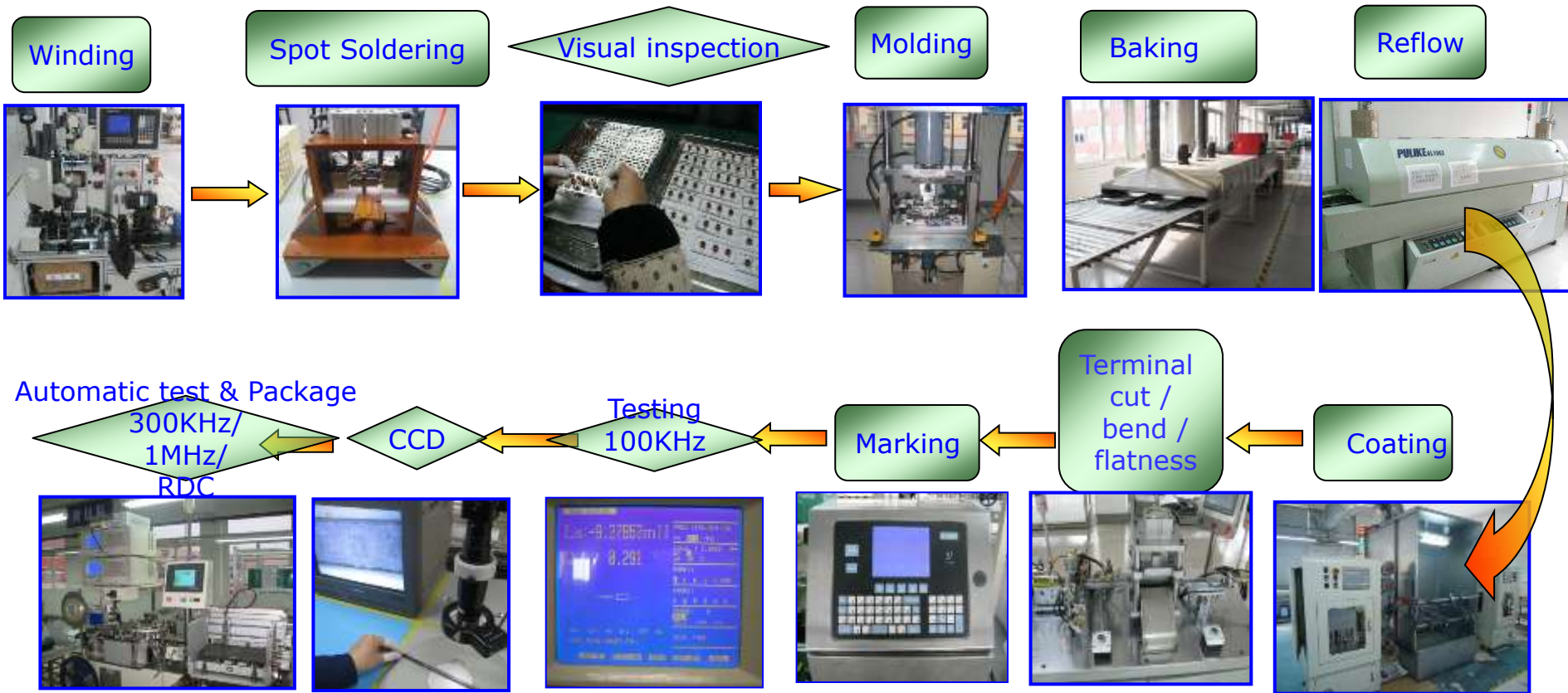
		SRP 7028A Series (New Type product with no clip)	PM7232S Series (Old Type product with clip)
Appearance			
Dimension (mm)	A	7.3±0.3	6.86±0.5
	A'	/	7.8 max.
	B	6.6±0.3	6.47±0.5
	B'	/	7.0 max.
	C	2.8±0.2	3.0 max.
	C'	/	3.2 max.
	D	1.8±0.3	1.6±0.5
	E	3.3±0.3	2.1±0.5

# Product Electronic Characteristic

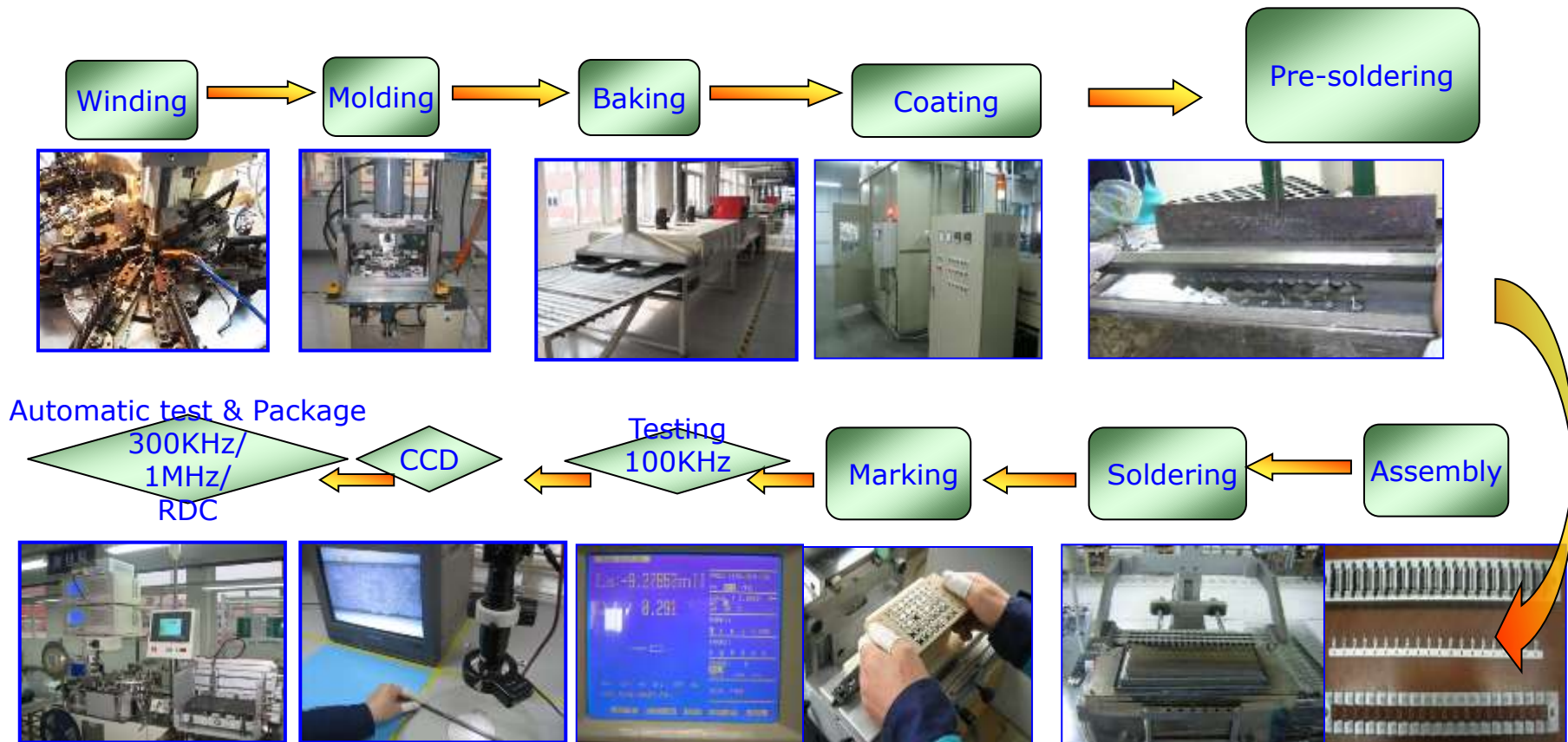
	SRP 7028A -1R5M (New Type product)	PM7232S -1R5M-RC (Old Type product)
Inductance (uH)	1.50 ± 20%	1.50 ± 20%
Rdc (mΩ) max.	15	15
Irms(A) typ.	9	9
Isat(A) typ.	18	14
Operating Temp.	-40°C--+150°C(ambient + temp. rise)	-40~+125°C(ambient + temp. rise)
Recommended PCB Pattern	 <p>G: 2.5 H: 3.5 L: 8.4</p>	 <p>G: 3.7 H: 3.5 L: 8.7</p>
Typical performance curves	 <p>SRP7028A-1R5M</p>	 <p>PM7232S-1R5-RC</p>









# SRP "A" Process Introduction



# SRP "with clip" Process Introduction



# Product Structure

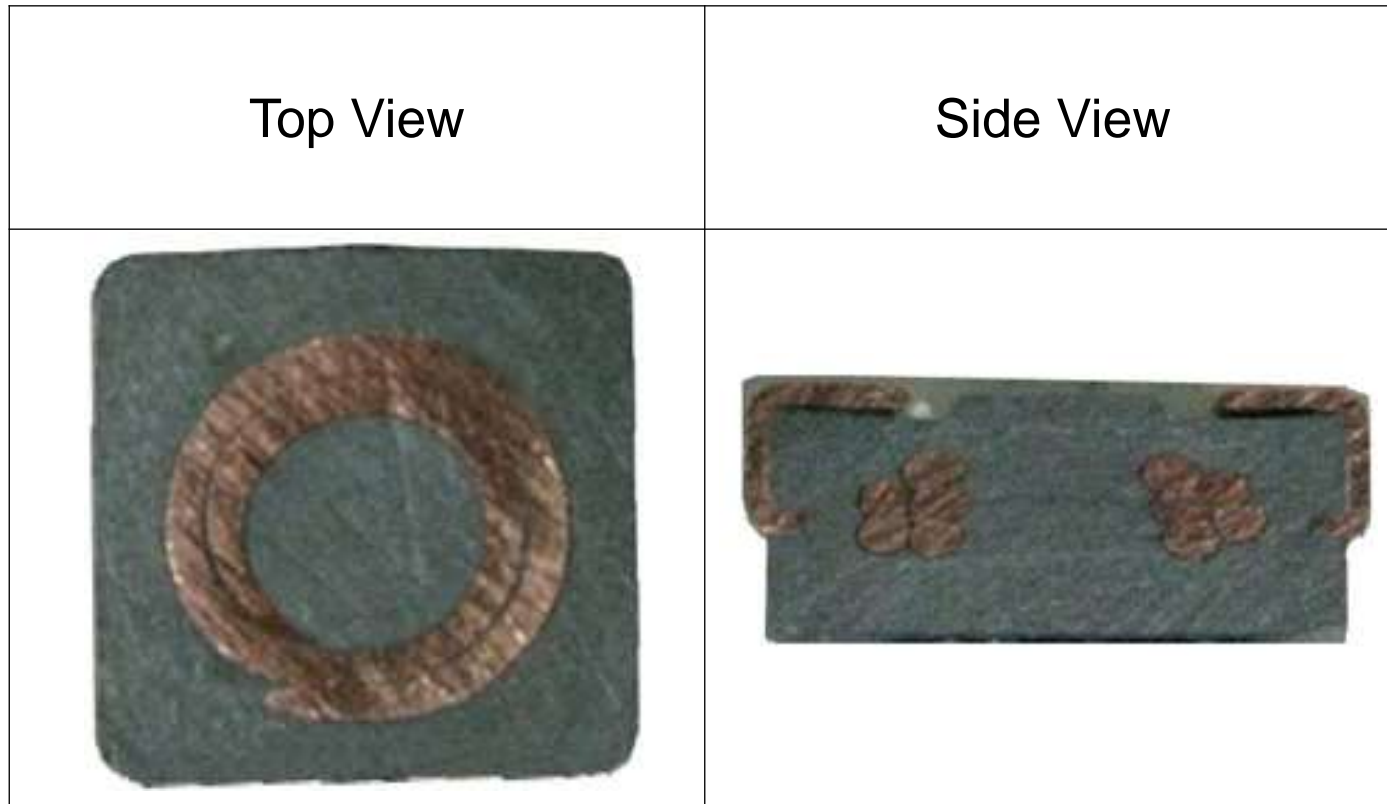
	Inner	Semi-Product	Finish product
<p><b>SRP clip type</b> (Old Type Product)</p>	<p>Single Coil</p> 	<p>Molding the coil directly. The Wire is kept as the terminal to be solder joint with the clip.</p> 	<p>Assemble the semi-part with the clip to be the product's pad.</p> 
<p><b>SRP "A"</b> (New Type Product) for higher inductance values with leadframe only</p>	<p>Coils spot welding with lead-frame</p> 	<p>Molding the coil and lead-frame together.</p> 	<p>Adjust the lead-frame to be products' pad.</p> 

# Production Line and Monthly Capacity

	Production Line area	Monthly Capacity	Production Line Operator #
SRP clip type (Old Type Product)	5000 m2	15KK pcs	300
SRP "A" (New Type Product)	10000 m2	35KK pcs	500

# Cross Section

Advantage of SRP “A” series is to keep the inner coil in center to help the electrical characteristics steady and reduce the defective rate in production.



# Key Highlights of SRP “A” type “no clip”

1. Vishay patent.
2. Steady electrical characteristics
3. High automation process
4. High monthly capacity
5. Pass AECQ-200
6. TS16949 certified

# Bourns Automotive Approved Inductors

Series	Standard Model	Inductor Value Range(uH)	Max Current Range(A)	Saturation Current Range (A)	Diameter or LxW mm	Core	Shielded
SRF0703A	SRF0703	34.1~608.2	2.66~0.65	PLM	7.6x7.6	Ferrite (Drum)	Y
SRF0905A	SRF0905	10-6500	1.6~0.3	PLM	9.2x6	Ferrite (Toroid)	Y
SRF1260A	SRF1260	0.47~1000	17.6~0.57	33~0.7	12.5x12.5	Ferrite (Drum)	Y
SRF1280A	SRF1280	1.67~4020	8.94~0.307	PLM	12.5x12.5	Ferrite (Drum)	Y
SDE0604A	SDR0604	1.2-120	5.~0.75	6.0-0.6	5.8	Ferrite (Drum)	N
SDE1006A	SDE1006	1.2~820	7.2~0.45	7.2~0.45	9	Ferrite (Drum)	N
SDR1307A	SDR1307	1.5~1000	9.5~0.65	20~1.0	13	Ferrite (Drum)	N
SRR0735A	SRR0735	10~680	2.1~0.21	1.85~0.22	7.3x7.3	Ferrite (Drum)	Y
SRR0745A	SRR7045	10~1000	2.1~0.2	2.5~0.24	7.3x7.3	Ferrite (Drum)	Y
SRR1210A	SRR1210	1.0~1000	2.19~0.58	16.5~0.7	12x12	Ferrite (Drum)	Y
SRR1260A	SRR1260	1~1000	9.4~0.68	10~0.6	12.5x12.5	Ferrite (Drum)	Y
SRR1280A	SRR1280	4.7~1000	8.2~0.68	8.8~0.8	12.5x12.5	Ferrite (Drum)	Y
SRU1028A	SRU1028	1-150	7~0.7	8.0~0.65	10x10	Ferrite (Drum)	Y
SRU1038A	SRU1038A	1.5~330	7.2~0.55	7.0~0.55	10x10	Ferrite (Drum)	Y
SRU1048A	SRU1048	1.5~330	7~0.65	7.2~0.52	10x10	Ferrite (Drum)	Y
SRU3028A	SRU3028	10~33	0.72~0.47	0.86~0.48	3.3x3.5	Ferrite (Drum)	Y
SRU5028A	SRU5028	1.2~100	3.5~0.47	3.4~0.42	5.2x5.2	Ferrite (Drum)	Y
SRU6025A	SRU6025	1.2~220	4.0~0.42	3.2~0.24	6.2x6.5	Ferrite (Drum)	Y
SRU8028A	SRU8028A	2.5~100	4.5~0.75	4.2~0.7	8x8	Ferrite (Drum)	Y

# Inductors

## Designer Kits →

## Overview

- SMD Non-shielded, Semi Shielded, Fully Shielded and High Current Inductors
- 15 Kits available and 6 Kits in preparation

### Bourns® SMD Non-Shielded Power Inductor Design Kit Power Management Applications



**Bourns® 3 mm to 8 mm SDR Series**

- SDR0302 Series: 8 Inductance Values / 3 Components Each Min.
- SDR0403 Series: 8 Inductance Values / 3 Components Each Min.
- SDR0604 Series: 8 Inductance Values / 3 Components Each Min.
- SDR0805 Series: 8 Inductance Values / 3 Components Each Min.

Design Kits for most Bourns® product lines are available.  
Contact your nearest Bourns sales office for more information.



SDR-LAB1



### Bourns® SMD Shielded Power Inductor Design Kit Power Management Applications



**Bourns® 7 mm to 18 mm SRR Series**

- SRR7032 Series: 8 Inductance Values / 3 Components Each Min.
- SRR7045 Series: 8 Inductance Values / 3 Components Each Min.
- SRR7095 Series: 8 Inductance Values / 3 Components Each Min.
- SRR1006 Series: 8 Inductance Values / 3 Components Each Min.

Design Kits for most Bourns® product lines are available.  
Contact your nearest Bourns sales office for more information.



SRR-LAB2



### Bourns® SMD Shielded Power Inductor Design Kit Power Management Applications



**Bourns® 12 mm SRR Series**

- SRR1240 Series: 8 Inductance Values / 3 Components Each Min.
- SRR1260 Series: 8 Inductance Values / 3 Components Each Min.
- SRR1280 Series: 8 Inductance Values / 3 Components Each Min.
- SRR1210 Series: 8 Inductance Values / 3 Components Each Min.

Design Kits for most Bourns® product lines are available.  
Contact your nearest Bourns sales office for more information.



SRR-LAB3



### Bourns® SMD High Current Power Inductor Design Kit Power Management Applications



**Bourns® 4 mm & 7 mm SRP Series**

- SRP4030 Series (Flat Wire): 8 Inductance Values / 3 Components Each Min.
- SRP7010 Series (Round Wire): 8 Inductance Values / 3 Components Each Min.
- SRP7010F Series (Flat Wire): 16 Inductance Values / 3 Components Each Min.

Design Kits for most Bourns® product lines are available.  
Contact your nearest Bourns sales office for more information.



SRP-LAB1





# Inductors → Bourns Part-number Selection

TI - WEBENCH

My Designs

Back New Solutions Visualizer BOM Charts Schematic Optimize Op Vals Sim Thermal

**Optimization Tuning**

Lowest BOM Cost  
Smallest Footprint  
Highest Efficiency

Footprint: 411 BOM Cost: \$2.87 Efficiency: 80

Current Design: #51

IC	LM22676
VinMin	14 V
VinMax	22 V
Vout	3.3 V
Iout	2 A
ta	30
Optimization Factor	3

**BILL OF MATERIALS**

Export to:  BOM Cost: \$2.87 \*Footprint is component footp


Part	Manufactur	Part Number	Qua	Price	Attributes	Foot	Top View
Cbst	Kemet	C0805C103K5RAC	1	\$0.01	Cap=10nF, ESR=1.7390hm, VDC=50V	13	
Cin	TDK	C3216X7R1H105K	2	\$0.05	Cap=1uF, ESR=0.010hm, VDC=50V	19	
Cout	TDK	C3216X5R0J476M	1	\$0.25	Cap=47uF, ESR=2m0hm, VDC=6.3V	19	
D1	Diodes Inc.	B340A-13-F	1	\$0.13	VFatlo=0.5V, Io=3A, VRRM=40V	37	
L1	Bourns	SRR1240-150M	1	\$0.43	L=15uH, DCR=0.0470hm, IDC=3.5A	210	
U1	National Sem	LM22676MR-ADJ	1	\$1.92		56	
Rfb1	Panasonic	ERJ-6ENF1001V	1	\$0.01	Resistance=	13	

# Inductors →

# Parametric Search

- [www.bourns.com](http://www.bourns.com) – Magnetics Page

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- ▶ Magnetic Products
- ▶ Microelectronic Modules
- ▶ Position Sensors
- ▶ Potentiometers
- ▶ Resistive Products
- ▶ Surge Protective Devices (SPDs)
- ▶ Switches
- ▶ Switching Spark Gap

 Print


## Parametric Search

Inductance (μH)

Current (mA)

DCR (Ohms)

### Results

PART NUMBER	Inductance (μH)	Current (mA)	DCR (Ohms)	Coil Type	ProductCategory
 SRN3015-100M	10	1000	0.276	SMPSS-Surface Mount, Power Semi-Shielded	Power Inductors (Semi-shielded)



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**THANK YOU**