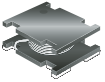
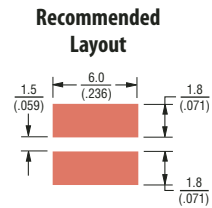



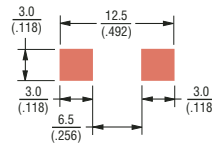
# Bourns® Power Chokes - Non-Shielded SMD - Square and Round Shapes


## SQUARE SHAPE

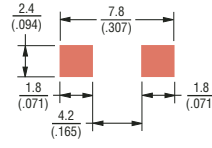
Model	Design	Description
	Ferrite	Size: 5.8 x 5.0 x 2.2 mm; Quantity: 800 pcs./reel
	DQ Core	Inductance Range: 2.7 µH to 560 µH; ±20/10 % Tolerance
<b>SDR0602</b>		Current Range at Isat: 140 mA to 2.1 A
		Q-Factor: 18-60




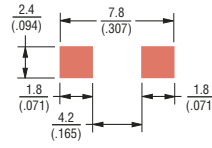
	Ferrite	Size: 3.0 x 2.8 x 2.5 mm; Quantity: 800 pcs./reel
	DR Core	Inductance Range: 1.0 µH to 1.2 mH; ±20/15 % Tolerance
	Base LCP	Current Range at Isat: 80 mA to 2.7 A
<b>SDR1105</b>	LEAD FREE	Q-Factor: 15-45




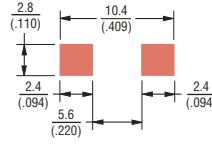
	Ferrite	Size: 7.0 x 7.0 x 3.0 mm; Quantity: 1500 pcs./reel
	DR Core	Inductance Range: 1.0 µH to 1000 µH; ±20/10 % Tolerance
	Base LCP	Current Range at Isat: 150 mA to 4.3 A
<b>SDR7030</b>	LEAD FREE	Q-Factor: 17-48




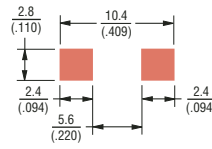
	Ferrite	Size: 7.0 x 7.0 x 4.5 mm; Quantity: 1000 pcs./reel
	DR Core	Inductance Range: 1.2 µH to 1000 µH; ±20/10 % Tolerance
	Base LCP	Current Range at Isat: 200 mA to 5.0 A
<b>SDR7045</b>	LEAD FREE	Q-Factor: 17-48



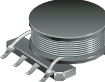
	Ferrite	Size: 10.0 x 10.0 x 3.0 mm; Quantity: 1000 pcs./reel
	DR Core	Inductance Range: 2.7 µH to 1000 µH; ±20/10 % Tolerance
	Base LCP	Current Range at Isat: 230 mA to 4.2 A
<b>SDR1030</b>	LEAD FREE	Q-Factor: 10-42

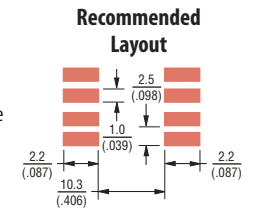



	Ferrite	Size: 10.0 x 10.0 x 4.5 mm; Quantity: 600 pcs./reel
	DR Core	Inductance Range: 2.7 µH to 1000 µH; ±20/10 % Tolerance
	Base LCP	Current Range at Isat: 400 mA to 6.2 A
<b>SDR1045</b>	LEAD FREE	Q-Factor: 12-26

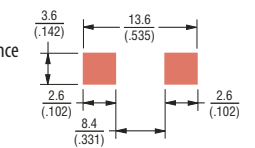


## SQUARE SHAPE


Model	Design	Description
	Ferrite	Size: 12.5 x 10.5 x 6.3 mm; Quantity: 600 pcs./reel
	DR Core	Inductance Range: 2.2 µH to 10 mH; ±20/10% Tolerance
	Base LCP	Current Range at Isat: 100 mA to 6.7 A
<b>SDR0906</b>		Q-Factor: 15-100

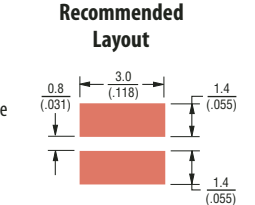



	Ferrite	Size: 12.7 x 12.7 x 4.8 mm; Quantity: 600 pcs./reel
	DR Core	Inductance Range: 2.5 µH to 1000 µH; ±25/10 % Tolerance
	Base LCP	Current Range at Isat: 470 mA to 8.0 A
<b>SDR1305</b>	LEAD FREE	Q-Factor: 11-41

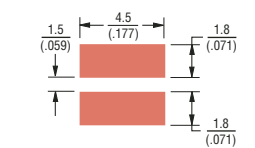



## ROUND SHAPE

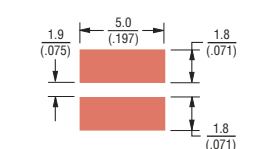
Model	Design	Description
	Ferrite	Size: 3.0 x 2.8 x 2.5 mm; Quantity: 1000 pcs./reel
	DR Core	Inductance Range: 1 µH to 1200 mH; ±20/10% Tolerance
		Current Range at Isat: 80 mA to 2.7 A
<b>SDR0302</b>		Q-Factor: 15-45



	Ferrite	Size: 4.5 x 4.0 x 3.2 mm; Quantity: 2000 pcs./reel
	DR Core	Inductance Range: 1 µH to 270 µH; ±20/10% Tolerance
		Current Range at Isat: 300 mA to 5.5 A
<b>SDR0403</b>		Q-Factor: 20-50



	Ferrite	Size: 5.0 x 4.8 x 3.0 mm; Quantity: 500 pcs./reel
	DR Core	Inductance Range: 10 µH to 15 mH; ±10/5% Tolerance
		Current Range at Isat: 30 mA to 1.6 A
<b>SDR0503</b>	PREFERRED	Q-Factor: 10-90



Operating Temperature:

-25 °C to +125 °C

Temperature Rise:


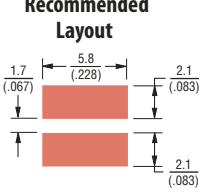

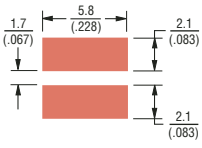

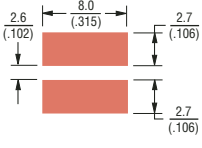

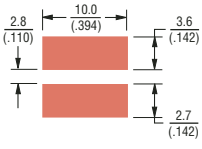

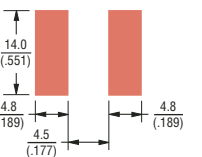
40 °C max. at rated current

Resistance to Soldering Heat:


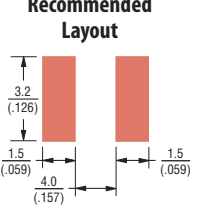

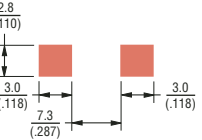

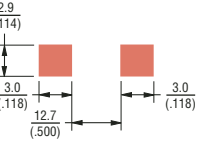

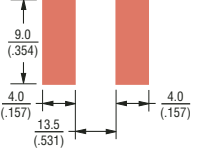
260 °C for 10 seconds

# Bourns® Power Chokes - Non-Shielded SMD - Round and Oval Shapes

## ROUND SHAPE

Model	Design	Description	Recommended Layout
 <b>SDR0603</b>	Ferrite DR Core	Size: 5.8 x 3.9 mm; Quantity: 400 pcs./reel Inductance Range: 1.5 µH to 470 µH; ±20/10 % Tolerance Current Range at Isat: 260 mA to 3.5 A Q-Factor : 15-29	
 <b>SDR0604</b>	Ferrite DR Core PREFERRED	Size: 5.8 x 4.8 mm; Quantity: 400 pcs./reel Inductance Range: 1.0 µH to 820 µH; ±20/10 % Tolerance Current Range at Isat: 200 mA to 7.3 A Q-Factor : 20-35	
 <b>SDR0805</b>	Ferrite DR Core PREFERRED	Size: 7.8 x 5.3 mm; Quantity: 1000 pcs./reel Inductance Range: 1.5 µH to 4.7 mH; ±20/10 % Tolerance Current Range at Isat: 80 mA to 6.0 A Q-Factor : 12-32	
 <b>SDR1006</b>	Ferrite DR Core LEAD FREE	Size: 9.8 x 5.8 mm; Quantity: 800 pcs./reel Inductance Range: 1.5 µH to 4.7 mH; ±20/10 % Tolerance Current Range at Isat: 240 mA to 10.0 A Q-Factor : 10-35	
 <b>SDR1307</b>	Ferrite DR Core	Size: 13.0 x 7.0 mm; Quantity: 500 pcs./reel Inductance Range: 1.5 µH to 1.0 mH; ±20/10 % Tolerance Current Range at Isat: 1.0 A to 20.0 A Q-Factor: 10-40	

## OVAL SHAPE

Model	Design	Description	Recommended Layout
 <b>SDR0703</b>	Ferrite DQ Core Base Phenolic	Size: 6.5 x 4.5 x 2.7 mm; Quantity: 500 pcs./reel Inductance Range: 1.0 µH to 1.0 mH; ±20/10 % Tolerance Current Range at Isat: 130 mA to 3.2 A Q-Factor: 17-36	
 <b>SDR1005</b>	Ferrite DR Core Base LCP	Size: 12.7 x 10.0 x 5.0 mm; Quantity: 600 pcs./reel Inductance Range: 1.0 µH to 10 mH; ±20/10 % Tolerance Current Range at Isat: 110 mA to 9.0 A Q-Factor: 20-101	
 <b>SDR1806</b>	Ferrite DR Core Base Phenolic	Size: 18.2 x 14 x 6.6 mm; Quantity: 250 pcs./reel Inductance Range: 1.0 µH to 1.0 mH; ±20/15 % Tolerance Current Range at Isat: 1 A to 30 A Q-Factor: 10-25	
 <b>SDR2207</b>	Ferrite DR Core Base Phenolic PREFERRED	Size: 22 x 15 x 7.0 mm; Quantity: 250 pcs./reel Inductance Range: 0.8 µH to 1 mH; ±20/10 % Tolerance Current Range at Isat: 1.0 A to 35 A Q-Factor: 15-53	

### Operating Temperature:

-25 °C to +125 °C

### Temperature Rise:

40 °C max. at rated current

### Resistance to Soldering Heat:

260 °C for 10 seconds



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