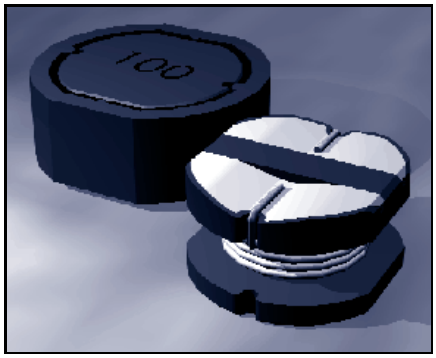
C&D TECHNOLOGIES
Power Solutions

2600 SERIES

Bobbin Wound Surface Mount Inductors



FEATURES

- Bobbin Format
- Up to 4.6A IDC
- 3.3µH to 680µH
- Optional Integral EMI Shield
- Low DC Resistance
- Surface Mounting
- Compact Size
- Tape and Reel Packaging

DESCRIPTION

The 2600 series is a range of bobbin wound surface mount inductors designed for use in switching power supply and power line filter circuits. The parts are suitable for any application requiring a high saturation current in a miniature surface mount footprint. Where EMI is a critical factor the devices are available with an integral ferrite EMI shield.

SELECTION GUIDE (UNSHIELDED TYPES)[1]

Order Code	Nominal Inductance µH 1Hz, 100mV	Inductance Range µH 1Hz, 100mV	DC Resistance Ω MAX	Nominal Self DC Current Continuous[2] A MAX	Resonant Frequency MHz 100mVrms	Mechanical Dimensions
263R3	3.3	2.13–3.95	0.035	4.40	53.0	
264R7	4.7	3.41–6.34	0.045	3.60	37.0	
266R8	6.8	5.00–9.28	0.054	3.10	31.0	
26100	10	8.00–12.0	0.060	2.60	24.8	
26120	12	7.95–14.8	0.068	2.42	24.0	
26150	15	12.0–18.0	0.090	2.27	20.2	
26180	18	12.9–24.0	0.087	2.10	19.0	
26220	22	17.6–26.4	0.100	1.95	16.9	1
26330	33	26.4–39.6	0.120	1.50	12.8	
26470	47	42.3–51.7	0.170	1.28	10.2	
26680	68	61.2–74.8	0.220	1.11	8.37	
26101	100	90.0–110	0.350	0.97	6.56	
26151	150	135–165	0.470	0.78	5.20	
26221	220	198–242	0.730	0.66	4.00	
26331	330	297–363	1.150	0.52	3.14	
26471	470	423–517	1.480	0.42	2.54	
26681	680	612–748	2.250	0.28	1.97	

SELECTION GUIDE (EMI SHIELDED TYPES)[1]

Order Code	Nominal Inductance µH 1Hz, 100mV	Inductance Range µH 1Hz, 100mV	DC Resistance Ω MAX	Nominal Self DC Current Continuous[2] A MAX	Resonant Frequency MHz 100mVrms	Mechanical Dimensions
26S3R3	3.3	2.69–5.46	0.033	4.60	46.0	
26S4R7	4.7	3.58–7.15	0.038	3.80	38.0	
26S6R8	6.8	4.60–8.97	0.043	3.21	30.0	
26S100	10	8.00–12.0	0.050	2.65	22.9	
26S120	12	8.42–15.9	0.058	2.55	21.0	
26S150	15	12.0–18.0	0.060	2.45	19.7	
26S180	18	13.4–25.6	0.074	2.32	16.0	
26S220	22	18.7–26.4	0.070	2.20	15.5	2
26S330	33	28.1–39.6	0.100	1.80	11.5	
26S470	47	40.0–56.4	0.120	1.50	9.44	
26S680	68	57.8–81.6	0.170	1.26	7.47	
26S101	100	85.0–120	0.250	1.05	6.04	
26S151	150	128–180	0.400	0.85	4.67	
26S221	220	187–264	0.520	0.70	3.75	
26S331	330	281–396	0.800	0.57	2.87	
26S471	470	400–564	1.200	0.48	2.33	
26S681	680	578–816	1.780	0.40	1.83	

ABSOLUTE MAXIMUM RATINGS

Operating free air temperature range	–40°C to 85°C
Storage temperature range	–40°C to 125°C

1 Specifications typical at T_A =25°C
2 The maximum DC current is the value at which the inductance falls to 80% of its nominal value or until its temperature rise reaches 40°C, whichever is sooner.

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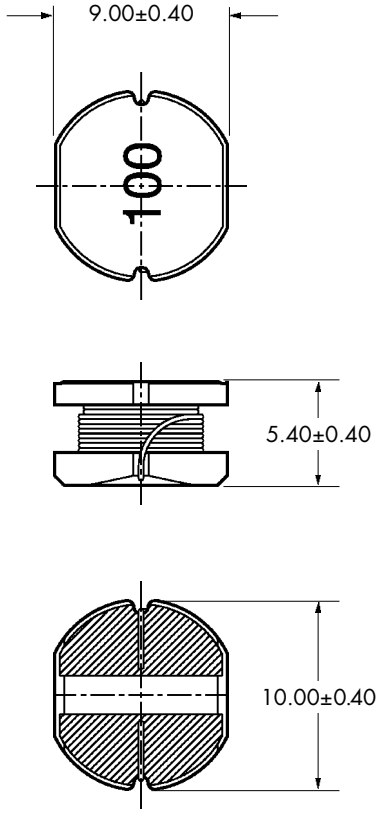
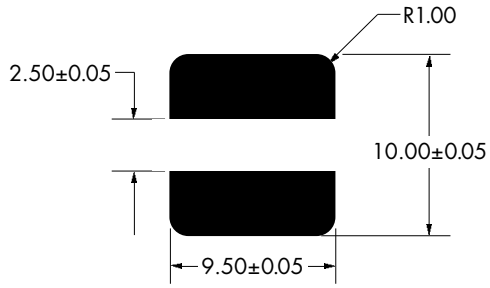
1 - MECHANICAL DIMENSIONS (UNSHIELDED TYPES)

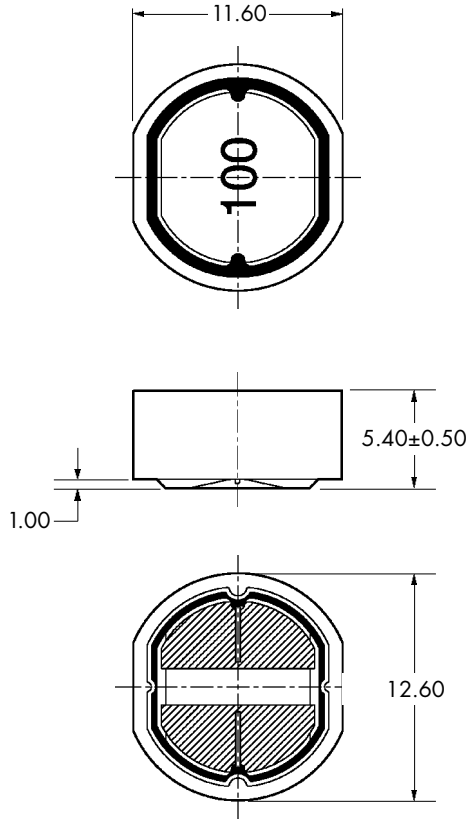


Recommended Footprint Details

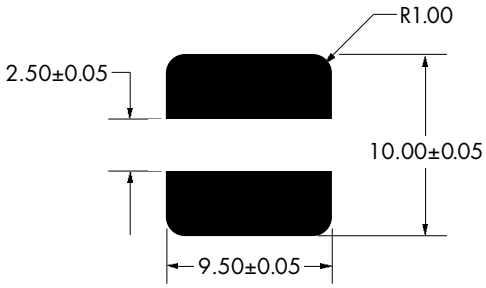


Unless otherwise stated all dimensions in mm ±0.35mm.
Hatching represents solder pads.

2 - MECHANICAL DIMENSIONS (EMI SHIELDED TYPES)



Recommended Footprint Details



Unless otherwise stated all dimensions in mm ±0.35mm.
Hatching represents solder pads.

PACKAGE DETAILS

Order Code	TYP Weight (g)	Packaging Style
26XXX	1.54	Tape & Reel[1]
26SXXX	2.34	

1 For tape and reel packaging details refer to datasheet NDCAN002

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