



Features

- Available in E12 series
- Low height of only 7.0 mm
- Inductance as low as 0.78 μ H
- High current up to 16 amps
- RoHS compliant*

Applications

- Input/output of DC/DC converters
- Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs

SDR2207 Series - SMD Power Inductors

Electrical Specifications

Bourns Part Number	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (m Ω)	I rms Max. (A)	I sat Typ. (A)
	(μ H)	Tol. %						
SDR2207-R78ML	0.78	± 20	30	5	104.0	2.6	15.0	30.0
SDR2207-R80ML	0.8	± 20	30	5	102.0	2.8	16.0	35.0
SDR2207-1R2ML	1.2	± 20	30	3	70.0	3.8	15.0	30.0
SDR2207-1R5ML	1.5	± 20	30	3	60.0	5.0	15.0	25.0
SDR2207-1R8ML	1.8	± 20	31	3	51.0	4.5	13.0	25.0
SDR2207-2R2ML	2.2	± 20	35	3	51.0	7.5	13.0	20.0
SDR2207-2R7ML	2.7	± 20	38	3	51.0	7.0	10.0	20.0
SDR2207-3R3ML	3.3	± 20	38	3	39.0	7.8	9.0	17.0
SDR2207-3R9ML	3.9	± 20	38	3	36.0	12.0	9.0	15.0
SDR2207-4R7ML	4.7	± 20	38	3	33.0	8.8	8.5	15.0
SDR2207-5R6ML	5.6	± 20	50	3	30.0	13.4	7.8	14.0
SDR2207-6R0ML	6.0	± 20	43	3	28.0	17.0	7.5	12.0
SDR2207-6R8ML	6.8	± 20	38	3	27.0	14.2	7.5	12.0
SDR2207-7R8ML	7.8	± 20	36	3	26.0	20.0	7.5	11.0
SDR2207-8R2ML	8.2	± 20	35	3	25.0	15.5	7.0	11.0
SDR2207-100ML	10	± 20	53	5	20.0	17.2	6.5	10.0
SDR2207-120YL	12	± 15	50	5	19.0	23.6	5.5	9.5
SDR2207-150YL	15	± 15	38	5	16.0	28.8	5.0	9.0
SDR2207-180YL	18	± 15	46	5	15.0	33.0	4.6	8.0
SDR2207-220YL	22	± 15	27	3	14.0	39.4	4.0	6.5
SDR2207-270YL	27	± 15	22	3	12.0	43.5	3.8	6.0
SDR2207-330YL	33	± 15	27	3	11.0	58.4	3.4	5.5
SDR2207-390KL	39	± 10	18	3	10.0	65.0	3.2	5.2
SDR2207-470KL	47	± 10	27	3	9.0	91.2	2.8	5.0
SDR2207-560KL	56	± 10	25	2	8.3	96.5	2.6	4.5
SDR2207-680KL	68	± 10	18	2	7.9	112.0	2.4	4.0
SDR2207-820KL	82	± 10	28	2	6.5	144.0	2.3	3.5
SDR2207-101KL	100	± 10	18	2	6.2	168.0	2.2	3.0
SDR2207-121KL	120	± 10	20	2	6.0	230.0	1.6	3.0
SDR2207-151KL	150	± 10	22	2	5.8	250.0	1.5	2.6
SDR2207-181KL	180	± 10	20	2	5.7	300.0	1.3	2.5
SDR2207-221KL	220	± 10	19	2	5.5	380.0	1.2	2.4
SDR2207-271KL	270	± 10	17	2	5.3	470.0	1.1	2.2
SDR2207-331KL	330	± 10	20	1	5.1	560.0	1.0	1.9
SDR2207-391KL	390	± 10	17	1	4.9	680.0	0.9	1.7
SDR2207-471KL	470	± 10	19	1	4.7	850.0	0.8	1.4
SDR2207-561KL	560	± 10	18	1	4.5	1000	0.8	1.3
SDR2207-681KL	680	± 10	16	1	4.2	1100	0.7	1.2
SDR2207-821KL	820	± 10	16	1	3.9	1400	0.6	1.1
SDR2207-102KL	1000	± 10	15	1	3.5	1800	0.6	1.0

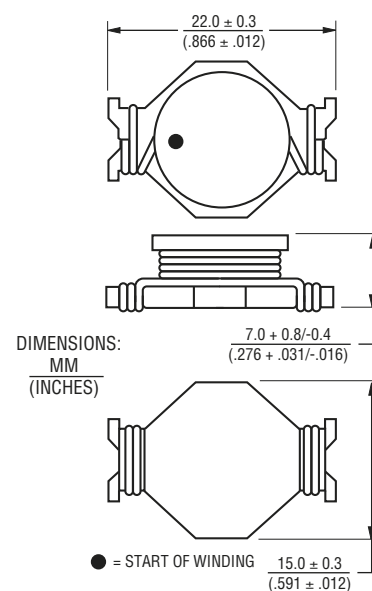
General Specifications

Test Voltage 0.1 V
 Reflow Soldering ... 230 °C, 10 sec. max
 (In compliance with JEDEC, J-STD-020C, Table 4-2)
 Operating Temperature
 -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature... -40 °C to +125 °C
 Resistance to Soldering Heat
 250 °C, 10 sec. max.
 Moisture Sensitivity Level..... 1
 ESD Classification (HBM)..... N/A

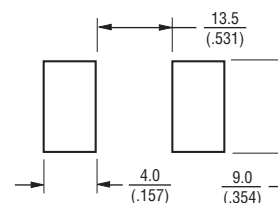
Materials

Core Ferrite DR
 Wire Enamelled copper
 Base Phenolic T375J
 Terminal..... Cu/Ag/Sn
 Rated Current
 Ind. drop 10 % typ. at Isat
 Temperature Rise
 40 °C max. at rated I rms
 Packaging..... 250 pcs. per reel

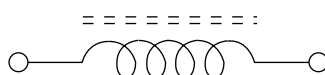
Product Dimensions



Recommended Layout



Electrical Schematic



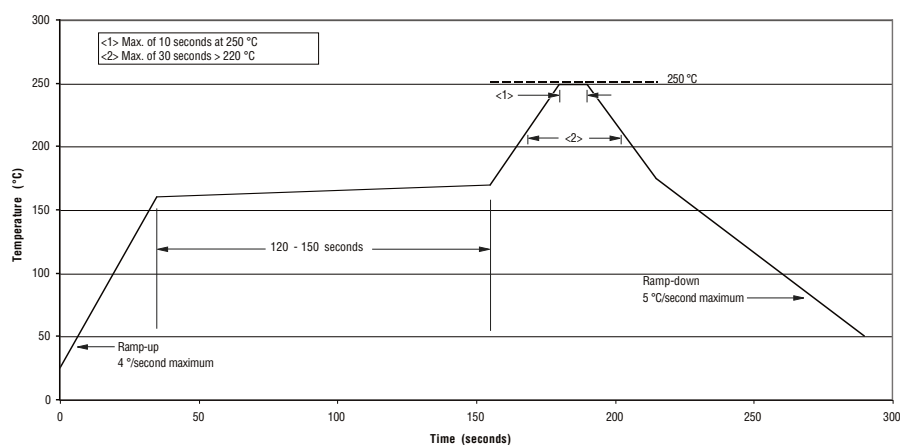
WARNING
 Cancer and Reproductive Harm -
www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

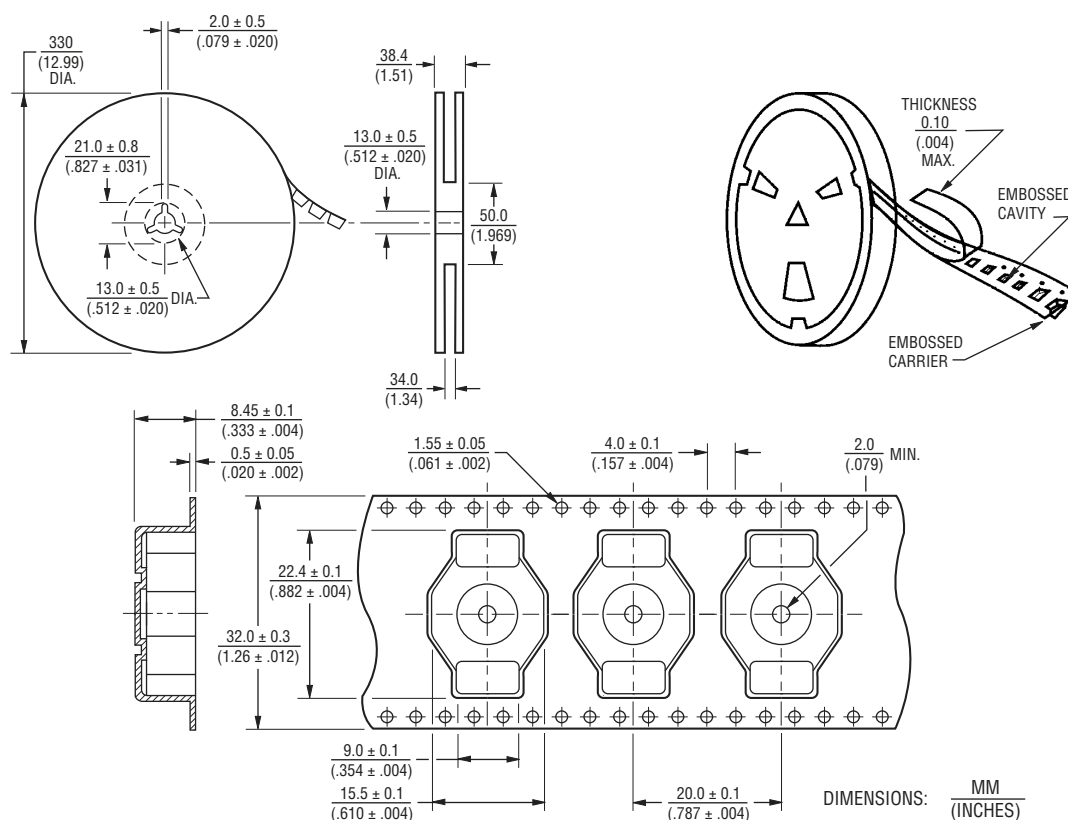
SDR2207 Series - SMD Power Inductors

BOURNS®

Soldering Profile



Packaging Specifications



QTY: 250 PCS. PER REEL

REV. 03/18

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Users should verify actual device performance in their specific applications.

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.