

Utilizing the latest winding technology, copper windings and ferrite cores, Signal's DRC Series addresses the needs of modern filtering applications by providing the most effective electrical noise suppression via a combination of high impedance, large inductance, and elevated current capacity.



- Wide inductance range
- Lowest DCR
- Tape packaging for auto-insertion
- Shrink tubing protected winding
- Fixed lead spacing
- High peak current support
- Large saturation current capacity
- Small footprint

Specifications

- Inductance Range: 10 μH to 15000 μH
- Rated Current: It is either the inductance is 10% lower than its initial value in DC Saturation characteristics or temperature rise becomes ΔT = 20°C (Ta = 20°C), whichever is lower.
- Operating Temperature Range: -20°C to +85°C
- Storage Temperature Range (component): -40°C to +125°C

Applications

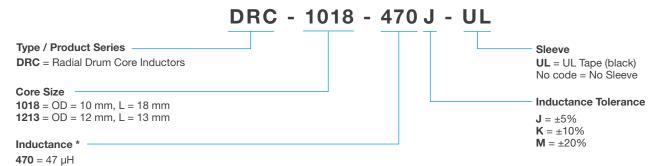
- TV and Audio equipment
- Telecommunication devices
- · Personal computers
- Switching power supplies
- Other noise filters





DRC-1018 / DRC-1213 Series Datasheet

PRODUCT IDENTIFICATION

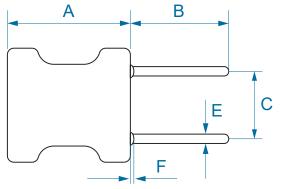


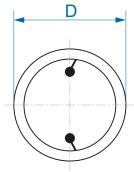
^{*} Note: Expressed by three figures. The unit is micro henry (µH). The first and second figures are significant digits, the third figure expresses the number of zeros which follow the two figures.

MECHANICAL SPECIFICATIONS

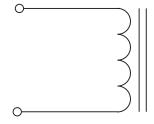
Dimensions are in mm.

SERIES	Α	В	C	D	E
		Min		Max	± 0.05
DRC-1018	21.0	15.0	6.0 ± 1.0	12.0	0.80
DRC-1213	16.0	15.0	7.5 ± 1.0	14.0	0.80





SCHEMATIC







Custom versions available upon request.

128 Atlantic Avenue, Lynbrook, NY 11563 Toll Free 866-239-5777 | Tel 516-239-5777 | Fax 516-239-7208 sales@signaltransformer.com | techhelp@signaltransformer.com

If there is a decimal point, it is expressed by the capital letter "R" (3R8 = 3.8μ H). In that case, all figures are significant digits.

DRC-1018 / DRC-1213 Series Datasheet

ELECTRICAL SPECIFICATIONS

Electrical specifications for all part numbers measured at 25°C unless stated otherwise.

DRC-1018 SERIES

Part Number	L @ 1 kHz (μH)	DCR Max. (Ω)	Saturation Current Max (A)	Temperature Rise Current Max (A)
DRC-1018-100J-UL	10	0.017	7.0	4.5
DRC-1018-150J-UL	15	0.022	5.5	4.0
DRC-1018-220J-UL	22	0.026	4.5	3.7
DRC-1018-330J-UL	33	0.032	3.8	3.3
DRC-1018-470J-UL	47	0.035	3.2	3.0
DRC-1018-221J-UL	220	0.162	1.5	1.5
DRC-1018-331J-UL	330	0.212	1.2	1.2
DRC-1018-332J-UL	3300	2.53	0.38	0.38
DRC-1018-472J-UL	4700	3.19	0.32	0.32
DRC-1018-682J-UL	6800	5.69	0.26	0.25
DRC-1018-103J-UL	10000	7.30	0.22	0.22
DRC-1018-153J-UL	15000	10.5	0.18	0.18

DRC-1213 SERIES

Part Number	L @ 1 kHz (μH)	DCR Max. (Ω)	Saturation Current Max (A)	Temperature Rise Current Max (A)
DRC-1213-100J-UL	10	0.023	8.0	5.1
DRC-1213-150J-UL	15	0.028	6.5	4.5
DRC-1213-220J-UL	22	0.035	5.5	4.2
DRC-1213-330J-UL	33	0.043	4.5	3.7
DRC-1213-221J-UL	220	0.20	1.7	1.7
DRC-1213-331J-UL	330	0.30	1.4	1.4
DRC-1213-471J-UL	470	0.43	1.1	1.1
DRC-1213-332J-UL	3300	3.10	0.43	0.44
DRC-1213-472J-UL	4700	4.40	0.36	0.37
DRC-1213-682J-UL	6800	6.50	0.30	0.30

Characteristics

 I_{sat} (Saturation Current): The value of inductance decrease within 10% I_{rms} (Temperature Rise): The temperature of coil increases within 20°C.

• Test equipment

L&Q: measured on HP 4285A or HP 4284A

DCR: measured on Chroma 16502 milli-ohm meter

SRF: HM 9461 L-SRF meter Electrical specifications at 25°C

Notice

There could be measurement deviations with different instruments due to different test principles / internal resistance. Open and Short compensation is performed before testing







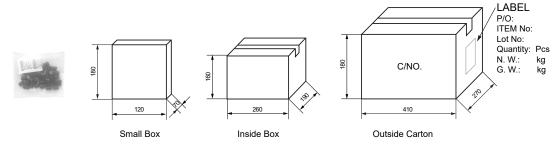


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DRC-1018 / DRC-1213 Series Datasheet

IN BAG PACKAGING SPECIFICATIONS



Series	Packaging Quantity (pcs)			
	Bag	Small box	Inside box	Outside carton
DRC-1018	50	250	1000	2000
DRC-1213	50	250	1000	2000

• Storage Conditions

- a) Temperature and humidity conditions $<35^{\circ}\text{C}$ and <35 65 %
- b) Recommendations: Inductors should be used within 6 months from the time of delivery
- c) Packaging material should be kept away from where chlorine and sulfur exist

Signal TRANSFORMER a bel group



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About Signal Transformer

Signal Transformer is known as the world's leader of wire wound magnetic solutions since 1959. With over 50 years of experience manufacturing transformers, chokes, inductors and custom or modified standard products. Signal offers not only the most comprehensive line of certified standard power conversion products, with our vast engineering, manufacturing and regulatory resources; Signal Transformer excels in the design and manufacturer of cost effective, specialized platforms.



For more information, please contact us:

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