

► Rod Core Power Inductors ► RC Series

FEATURES

- RC Series is available in 120 standard values covering a wide range of inductance and current.
- The use of high saturation flux density material makes these coils ideal for use in switching regulated power supply application and wherever high current choke values in a small physical size are needed.



APPLICATIONS

- Excellent for power line DC-DC conversion applications used in Power switching, personal computers and other handheld electronic equipment.

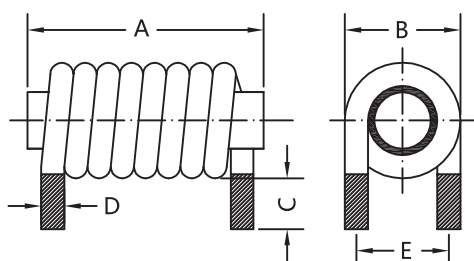
PRODUCT IDENTIFICATION

RC 0520 – 100 M – T
a b c d e

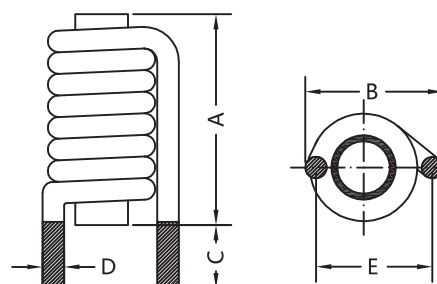
- a : Series name
- b : Product dimensions
- c : Inductance Value (1R0:1.0uH; 100: 10uH; 101:100uH)
- d : Inductance Tolerance (K:10% ; M:20% ; N:30%)
- e : Packaging style (T: Taping; B: bulk)

SHAPES AND DIMENSIONS Unit: mm

RCD Type.



RCU Type



Series	Dimensions(mm)				
	A	B	C	D	E
RCD0520	20.0±0.5	8.5 Max	5.0±0.5	0.5~1.5	6.0~7.0
RCU0520	20.0±0.5	10.5 Max	5.0±0.5	0.5~1.5	6.5~8.0
RCD0630	30.0±0.5	10.5 Max	5.0±0.5	0.5~2.0	7.0~9.5
RCU0630	30.0±0.5	12.5 Max	5.0±0.5	0.5~2.0	7.5~10.5
RCD0820	20.0±0.5	13.0Max	5.0±0.5	1.0~2.5	9.5~12.5
RCU0820	20.0±0.5	15.5Max	5.0±0.5	1.0~2.5	10.5~15.0

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	I _{rated} .(A)
RC0520-100MB	10.0	1.0	0.04	2.6
RC0520-120MB	12.0	1.0	0.05	2.3
RC0520-150MB	15.0	1.0	0.06	1.9
RC0520-180MB	18.0	1.0	0.08	1.6
RC0520-220MB	22.0	1.0	0.10	1.3
RC0520-270MB	27.0	1.0	0.15	1.0

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	I _{rated} .(A)
RC0630-4R7MB	4.7	1.0	0.005	16.5
RC0630-5R6MB	5.6	1.0	0.006	16.0
RC0630-6R8MB	6.8	1.0	0.008	10.5
RC0630-8R2MB	8.2	1.0	0.009	9.0
RC0630-100MB	10.0	1.0	0.010	8.0
RC0630-120MB	12.0	1.0	0.018	6.5
RC0630-150MB	15.0	1.0	0.023	5.0
RC0630-180MB	18.0	1.0	0.030	4.0
RC0630-220MB	22.0	1.0	0.045	3.0
RC0630-270MB	27.0	1.0	0.050	2.7
RC0630-330MB	33.0	1.0	0.060	2.5
RC0630-390MB	39.0	1.0	0.080	2.3
RC0630-470MB	47.0	1.0	0.110	1.9
RC0630-560MB	56.0	1.0	0.140	1.6

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	I _{rated} .(A)
RC0820-2R0MB	2.0	1.0	0.004	20.0
RC0820-5R0MB	5.0	1.0	0.010	18.0
RC0820-100MB	10.0	1.0	0.015	12.0
RC0820-150MB	15.0	1.0	0.020	9.0
RC0820-220MB	22.0	1.0	0.027	7.0
RC0820-270MB	27.0	1.0	0.035	5.0

Note:

I_{rated}: The DC current at which the inductance decreases to 90% of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=20^{\circ}\text{C}$)