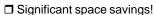
MINIATURE WIREWOUND RESISTORS

1 WATT to 10 WATT

200 SERIES





☐ Tolerance to ±0.01%, TCR to 5ppm/°C

 \square Wide resistance range: 0.005Ω to 250K

☐ Available on exclusive SWIFT[™] delivery program

☐ All sizes available on Tape & Reel

OPTIONS

□ Option X: Low Inductance

☐ Option P: Increased Pulse Capability

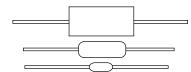
☐ Option F: Flameproof Coating ☐ Option ER: 100-Hour Burn-In

 $\hfill \Box$ Also available: low thermal emf (opt.E), matched sets, cut & formed leads, special marking, 4-terminal, hi-rel screening,

hermetic seal, non-standard values, increased voltage, etc.

Customized components are an RCD speciality!

TYPICAL SIZE COMPARISON



2W carbon composition

2W wirewound (standard)

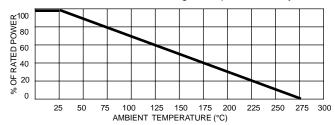
2W wirewound (type 210)

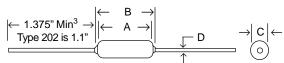


RCD 235 10Ω 5%

Typically half the size of conventional resistors! Type 202 is world's smallest wirewound resistor! Series 200 resistors offer the same MIL-grade construction as Series 100 resistors except utilize proprietary materials and processing, enabling significant size reductions. Series 200 resistors are ideal when PCB real estate is at a premium! Highest grade materials enable excellent stability and environmental performance.

DERATING: Power resistors reach elevated temperatures when operated near full wattage, and therefore should be mounted off the PCB and derated according to required stability levels.





RCD Type	Wattage Rating	Maximum Voltage ¹	Resistance Range	DIMENSIONS Inch [mm]				
				А	B (Max)	C ²	D (Nominal Diameter)	
							Standard	Optional
202	1.0W	30V	.01Ω to 2K	.150 ±.032 [3.81 ± .8]	.200 [5.08]	.064 ±.02 [1.63 ± .5]	.020 [0.5]	N/A
210	2.0W	40V	.01Ω to 10K	.250 ±.040 [6.35 ±1]	.300 [7.62]	.093 ±.025 [2.36 ± .6]	.020 [0.5]	.024 (Opt."22") [0.6]
232	3.0W	60V	.005Ω to 20K	.350 ±.040 [8.9 ±1]	.480 [12.2]	.140 ±.032 [3.56 ± .8]	.031 [0.8]	N/A
235	5.0W	157V	.005Ω to 40K	.500 ±.040 [12.7 ±1]	.595 [15.1]	.188 ±.032 [4.78 ± .8]	.031 [0.8]	.040 (Opt."18") [1.0]
255	7.0W	210V	.005Ω to 80K	.625 ±.040 [15.9 ±1]	.765 [19.4]	.232 ±.032 [5.89 ± .8]	.040 [1.0]	N/A
272	10W	600V	.005Ω to 250K	1.040 ±.048 [26.4 ±1.2]	1.125 [28.6]	.350 ±.032 [8.89 ± .8]	.040 [1.0]	N/A

¹ Volt rating determined by E = $\sqrt{(PR)}$, E not to exceed max. rating. Increased ratings available. Multiply by 0.7 for Opt. X

SPECIFICATIONS:

Temperature Coefficient typ. (Consult factory for TC on opt. P)	$ \begin{array}{llllllllllllllllllllllllllllllllllll$					
Inductance, Standard	1 to $50\mu H$ typical, depends on size & resistance value. Specify Opt. X for non-inductive performance (see below). $\leq 50\Omega$ $> 50\Omega$					
Inductance, Opt.X	Type 202X-235X: 0.2µH Max 0.37µH Max					
(levels as low as	Type 255X: 0.3µH Max 0.6µH Max					
20nH avail.)	Туре 272X: 0.6µH Max 1.0µH Max					
Dielectric Strength	500V (300V Type 202), 1KV available (Opt. 33)					
Overload, 5 Sec.	5X rated W 202-235, 10X rated W 255-272					

P/N DESIGNATION:

RCD Type

Options: X, P, F, ER, E, 22, 18

(leave blank if standard)

Resis. Code: ≤1%: 3 signif. figures & multiplier,

e.g. R100= 0.1Ω , 1R00= 1Ω ,1000= 100Ω , 1001= 1K Ω . **Resis. Code 2% - 10%**: 2 signif. figures & multiplier, e.g. R10= 0.1Ω , 1R0= 1Ω ,100= 10Ω , 101=100 Ω , 102= 1K Ω . Use extra digits as needed: e.g. R005, R0075, R012

Tolerance: K=10%, J=5%, H=3%,F=1%, D=0.5%, C=0.25%, B=0.1%, A=0.05%, Q=0.02%, T=0.01%

Packaging: B = Bulk, T = T&R

Optional TC: 5= 5ppm, 10= 10ppm, etc., if 100ppm & above use 3-digit code: 101 = 100ppm, 201= 200ppm, etc. (leave blank if standard)

Termination: W= Lead-free, Q= Tin/Lead (leave blank if either is acceptable, in which case RCD will select based on lowest price and quickest delivery

- 1001 - F B

 $^{^2}$ Allow .032" additional for Option X and values below 1.0 $\!\Omega$

³ Lead length applies to bulk packaged parts units, parts supplied on tape may be shorter (refer to taping specification)