PRECISION POWER WIREWOUND RESISTORS SILICONE COATED 1/2 WATT TO 50 WATT





RoHS

Term.W is Pb-free and RoHS compliant

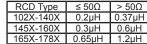
Series 100 resistors offer exceptional performance at an economical cost. Superior stability results from welded construction and windings of premium b)

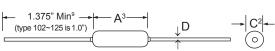
RCD 160F

10KΩ 5%

INDUCTANCE: small sizes have inductance of 1-50uH typ. Larger sizes and higher values typically have greater levels. For non-inductive design, specify Opt. X. The max. series inductance for Opt.X resistors at 0.5MHz is

listed in table (per MIL-R-39007). Specialty constructions are available for even lower inductance levels (Opt.75 inductance= 50% of Opt.X, Opt.76=33%).



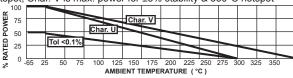


World's widest range! 0.005Ω ~2MΩ, ±0.005% ~10%, 0.5W ~50W. Low cost, available from stock & exclusive SWIFT™ delivery program.	grade resistance wire on thermally conductive ceramic cores. Hi-temp sili- cone coating provides excellent protection & solvent resistance. Tin (or SnPb
OPTIONS ☐ Option X: Low Inductance	coated copper/copperweld leads ensure proper solderabilty and extended shelf life. Marked with resis value & tol. as minimum (custom marking avail).
☐ Option P: Increased Pulse Capability ☐ Option F: Flameproof Coating UL94V-0 ☐ Option ER: 100-Hour Burn-In	PULSE CAPABILITY: Excellent pulse ability is inherent with the all-welded wirewound construction, but can be enhanced by a factor of 50% or more via special Option P processing (up to 500 joules). Pulse capability is highly
□ Ontion B: Increased Power	dependent on pulse duration repetition rate & resis value consult factory

voltage, etc. Customized components are RCD's speciality! **DERATING** (derate W/V/A ratings when ambient temp >25°C): Char. U is max. power for $\pm 0.5\%$ typ. operational life stability & 275°C hotspot; Char. V is max. power for $\pm 3\%$ stability & 350°C hotspot

☐ Radial leads (opt.R), low thermal emf (opt.E), matched sets, custom

marking, cut & form, Hi-Rel screening, non-standard values, high-

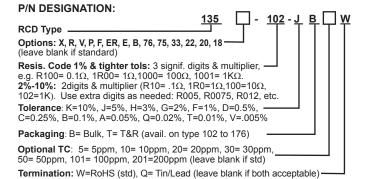


RCD Type	MIL	Std.	Wattago	0.45									
	MIL		Std. Wattage Opt.B Wattage				Massissesses	DIMENSIONS [Numbers in brackets are mm]					
Typo	MIL Type⁵	Ratings ¹⁰		Ratings ¹⁰		Resistance Range ^{6,7}	Maximum Voltage Rating ^{1,6}	A^3		C ²		D ⁸ ± .003 [.08]	
Type		Char.L	Char.U Char.V Char.U Char.V		± .062			[1.58]		55: ± .032 90: ± .045	Std.	Optional	
102	-	0.5	8.0	0.8	1.0	.01Ω - 2K	30V	.16 ±.0	3 [4.±.8]	.07±.0)2[1.8±.5]	.020	-
110	RW81 (110B)	0.8	1.0	1.5	2.0	.01Ω - 8K	40V	.24 ±.0	3 [6.±.8]	.085	[2.16]	.020	.024 (opt. 22)
115	-	1.0	1.2	1.5	2.0	.01Ω - 12K	45V	.312	[7.92]	.085	[2.16]	.020	.024 (opt. 22)
120	-	1.0	1.2	-	-	.01Ω - 15K	50V	.344	[8.74]	.096	[2.44]	.020	.024 (opt. 22)
125	RW70 (125B RW80)	1.5	1.8	2.0	2.5	.01Ω - 20K	55V	.385	[9.78]	.096	[2.44]	.020	.024 (opt. 22)
130	-	1.6	2.0	-	-	.01Ω - 22K	65V	.530	[13.5]	.096	[2.44]	.020	.024 (opt. 22)
133	-	2.0	3.0	3.0	4.0	.005Ω - 20K	80V	.355	[9.00]	.156	[3.96]	.031	.024 (opt. 22)
135	RW69	3.0	4.0	4.0	5.0	.005Ω - 40K	140V	.500	[12.7]	.188	[4.78]	.031	.024(22), .040(18)
140	RW79	3.0	4.0	4.0	5.0	.005Ω - 50K	140V	.550	[14.2]	.188	[4.78]	.031	.040 (opt. 18)
145	-	3.5	4.5	4.5	6.5	.005Ω - 60K	180V	.770	[19.6]	.188	[4.78]	.031	.040 (opt. 18)
150	-	3.5	4.5	5.0	7.0	.005Ω - 60K	150V	.500	[12.7]	.225	[5.72]	.040	.032 (opt. 20)
155	-	4.0	5.0	6.0	8.0	.005Ω - 100K	210V	.625	[15.9]	.225	[5.72]	.040	.032 (opt. 20)
156	-	5.0	6.0	-	-	.005Ω - 150K	300V	.800	[20.3]	.250	[6.35]	.040	.032 (opt. 20)
160	RW74	5.0	7.0	7.0	10	.005Ω - 200K	400V	.875	[22.2]	.312	[7.92]	.040	.032 (opt. 20)
165	RW67	6.0	7.5	-	-	$.005\Omega$ - 220K	450V	1.000	[25.4]	.312	[7.92]	.040	.032 (opt. 20)
170	-	7.0	9.0	10	12	$.005\Omega$ - 300K	550V	1.200	[30.9]	.312	[7.92]	.040	.032 (opt. 20)
171	-	7.0	8.5	-	-	$.005\Omega$ - 250K	700V	1.660	[42.2]	.208	[5.28]	.031	.040 (opt. 18)
172	-	8.5		-	-	.005Ω - 400K	900V	2.100	[53.3]	.225	[5.72]	.031	.040 (opt. 18)
173	-	9.0	11	12	14	.005Ω - 400K	650V	1.550	[39.4]	.300	[7.62]	.040	.032 (opt. 20)
175	RW68, 78	10	13	15	18	.005Ω - 500K	900V	1.7204	[43.7]	.3504	[8.89]	.040	.032 (opt. 20)
176	-	_		-	-	.005Ω - 500K	800V	1.875	[47.6]	.300	[7.62]	.040	.032 (opt. 20)
178	-	13		-	-	.01Ω - 750K	1150V	2.410	[61.2]	.350	[8.89]	.040	.032 (opt. 20)
180	RW56	14	16	16	20	.01Ω - 800K	1000V	2.100	[53.3]	.500	[12.7]	.040	-
185	-	20	25	-	-	.015Ω - 1M	1350V	2.800	[71.1]	.500	[12.7]	.040	-
186	-	25	30	-	-	.010Ω - 1M	1400V	4.060	[103]	.350	[8.89]	.040	.032 (opt. 20)
190	-	40	50	-	-	.025Ω - 2M	1500V	5.000	[127]	.500	[12.7]	.040	-
	102 110 115 125 130 133 135 140 145 155 156 160 165 170 171 172 173 175 176 178 180 185 186 190	102	102 - 0.5 110 RW81 (110B) 0.8 115 - 1.0 120 - 1.0 125 RW70 (125B RW80) 1.5 130 - 1.6 133 - 2.0 135 RW69 3.0 140 RW79 3.0 145 - 3.5 150 - 3.5 155 - 4.0 156 - 5.0 160 RW74 5.0 165 RW67 6.0 170 - 7.0 171 - 7.0 172 - 8.5 173 - 9.0 175 RW68, 78 10 176 - 10 177 - 10 177 - 10 178 - 10 178 - 13 180 RW56 14 185 - 20 186 - 25 190 - 40	102	102	102	102 - 0.5 0.8 0.8 1.0 .01Ω - 2K 110 RW81 (110B) 0.8 1.0 1.5 2.0 .01Ω - 8K 115 - 1.0 1.2 1.5 2.0 .01Ω - 12K 120 - 1.0 1.201Ω - 15K 125 RW70 (125B RW80) 1.5 1.8 2.0 2.5 .01Ω - 20K 130 - 1.6 2.001Ω - 22K 133 - 2.0 3.0 3.0 4.0 .005Ω - 20K 135 RW69 3.0 4.0 4.0 5.0 .005Ω - 20K 140 RW79 3.0 4.0 4.0 5.0 .005Ω - 60K 140 RW79 3.0 4.5 4.5 6.5 .005Ω - 60K 150 - 3.5 4.5 5.0 7.0 .005Ω - 60K 155 - 4.0 5.0 6.0 8.0 .005Ω - 100K 156 - 5.0 6.0005Ω - 100K 156 - 5.0 6.0005Ω - 100K 166 RW67 6.0 7.5005Ω - 200K 171 - 7.0 8.5005Ω - 200K 172 - 8.5 10005Ω - 200K 173 - 9.0 11 12 14 .005Ω - 200K 175 RW68, 78 10 13 15 18 .005Ω - 500K 176 - 10 12005Ω - 500K 177 - 13 15005Ω - 500K 178 - 13 15005Ω - 500K 179 - 100 12005Ω - 500K 170 - 10 12005Ω - 500K 171 - 10 12005Ω - 500K 172005Ω - 200K 173005Ω - 200K 174005Ω - 200K 175 RW68, 78 10 13 15 18 .005Ω - 200K 176005Ω - 500K 177005Ω - 500K 178005Ω - 500K 179005Ω - 500K 170005Ω - 500K 171005Ω - 500K 172005Ω - 500K 173005Ω - 500K 174005Ω - 500K 175 RW68, 78 10 13 15 18 .005Ω - 500K 176005Ω - 500K 177005Ω - 500K 178005Ω - 500K 179005Ω - 500K 179005Ω - 500K 170005Ω	102	102 - 0.5 0.8 0.8 1.0 .01Ω - 2K 30V .16 ±.00 .110 RW81 (110B) 0.8 1.0 1.5 2.0 .01Ω - 8K 40V .24 ±.0 .115 - 1.0 1.2 1.5 2.0 .01Ω - 12K 45V .312 .120 - 1.0 1.2 1.5 2.0 .01Ω - 15K 50V .344 .125 RW70 (1258 RW80) 1.5 1.8 2.0 2.5 .01Ω - 20K 55V .385 .130 - 1.6 2.001Ω - 20K 55V .385 .13000Ω00Ω00Ω00Ω20K .00Ω .355 .135 RW69 3.0 4.0 4.0 .005Ω - 20K 80V .355 .135 RW69 3.0 4.0 4.0 5.0 .005Ω - 40K 140V .500 .1463.5 4.5 4.5 6.5 .005Ω - 60K 180V .770 .1503.5 4.5 5.0 7.0 .005Ω - 60K 180V .770 .1503.5 4.5 5.0 7.0 .005Ω - 60K 180V .770 .1554.0 5.0 6.0 8.0 .005Ω - 100K .210V .625 .1565.0 6.0005Ω - 120K .450V .800 .160150150K150V150150150K150V150	102	102	102 - 0.5 0.8 0.8 1.0 0.1Ω - 2K 30V 16±03 [4±8] 0.7±02 [1.8±5] 110 RW81 (110B) 0.8 1.0 1.5 2.0 0.1Ω - 2K 45V 312 [7.92] 0.85 [2.16] 115 - 1.0 1.2 1.5 2.0 0.1Ω - 15K 50V 344 8.74 0.96 [2.44] 120 - 1.0 1.2 0.1Ω - 15K 50V 344 8.74 0.96 [2.44] 130 - 1.6 2.0 0.1Ω - 2K 65V 385 9.78 0.96 [2.44] 130 - 1.6 2.0 0.1Ω - 2K 65V 385 9.78 0.96 [2.44] 133 - 2.0 3.0 3.0 4.0 0.05Ω - 20K 80V 3.55 9.00 1.56 3.96 135 RW69 3.0 4.0 4.0 5.0 0.05Ω - 50K 140V .550 14.2 1.88 4.78 140 RW79 3.0 4.0 4.0 5.0 0.05Ω - 60K 180V .550 14.2 1.88 4.78 145 - 3.5 4.5 5.5 5.0 7.0 0.05Ω - 60K 180V .550 12.7 .225 5.72 155 - 4.0 5.0 6.0 8.0 0.05Ω - 100K 300V 8.00 12.7 .225 5.72 165 RW67 6.0 7.5 - 0.05Ω - 200K 400V 8.75 2.2 3.12 7.92 165 RW67 6.0 7.5 - 0.05Ω - 200K 400V 8.75 2.2 3.12 7.92 170 - 7.0 9.0 10 12 0.05Ω - 200K 400V 8.75 2.2 3.12 7.92 170 - 7.0 9.0 10 12 0.05Ω - 200K 400V 8.75 2.2 3.12 7.92 173 - 9.0 11 12 14 0.05Ω - 200K 800V 1.875 43.7 3.50 8.89 176 - 13.15 1.30 1	102

¹Working voltage=(PR)¹², not to exceed max rating (multiply by 0.7 for Opt.X) ²Allow .032° additional for Opt X, Opt 33, or values<1Ω ³Coating overflow onto each lead ≤2xD typ ⁴Performance is typical for Char.U with tol ≤1%, & is dependent on resis, options, etc. Consult factory for Char.V & tol >1% ⁵Military pin's are given for reference only & do not imply qualification or exact interchangeability ⁵Increased range avail ¹Resis value meass at 38°±1/16 from each end of body ³ Heavier lead gauge option is recommended on low values to enable lower leadwire resis, increased current, & improved To ² Lead length applies to bulk packaged units (taped parts generally have shorter leads, refer to taping spec.) ¹0 Series 100 has dual power rating depending on temp.rise & stability requirements; derate 50% to ensure high reliability & operational life stability

TYPICAL PERFORMANCE 4

Operational Life (Char.U	l)	±0.5% (±1% on Opt.B & sizes ≥10W)					
Thermal Shock		±0.2%					
Moisture Resistance		±0.2%					
Shock and Vibration		±0.1%					
Overload, 5 Sec		5x rated W 102-156, 10x W 160-190					
Dielectric Strength: type	102-130	300V (for 500V specify opt.23)					
Dielectric Strength: type	133-190	500V (for 1KV specify opt.33)					
Max. Current (not to exc	eed	Resistors with .020"lead dia = 11A,					
wattage or voltage rating	g)	.024" =15A, .032" =22A, .040"=30A					
TCR: temp coefficient	≥10Ω	20ppm (5 & 10ppm avail.)					
of resistance element,	1- 9.9Ω	50ppm (10, 20, 30ppm avail.)					
tol ≤1% (contact	0.199Ω	90ppm (20, 30, 50 ppm avail.)					
factory >1%).	050099Ω	300ppm (50, 100, 200ppm avail.)					
	.01Ω049Ω	600ppm (100, 200, 300ppm avail.)					



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