



CODECO CORPORATION OF VERMONT

Series: WP

Ultra-Precision Wirewound Resistors

VPR's ultra-precision resistors should be used wherever there is a requirement for extremely tight tolerances, temperature coefficients or a combination of both. These resistors are wound on bobbins of molded epoxy with a single strand of nickel-chromium wire. This wire has no soldered or welded splices that will cause problems after the circuit is in the field. All parts are wound on reversed bi-segmented bobbins to eliminate any possible inductance.

Tension is controlled and kept to a minimum while the winding process takes place to keep out any possible fatigue problems. The windings are then relieved of stresses by extensive aging before calibration and termination operations. The resistors are then given a silicon buffer coat before the final epoxy molding occurs, resulting in a case size that is extremely consistent from part to part. Marking is then done alpha-numerically with a type of epoxy ink that will withstand any of the cleaning or degreasing solvents. All WP series parts are RoHS compliant.

Axial Lead Subminiature Series



Type	Minimum Tolerance	Power (Watts)	Maximum Resistance	Diameter ±.005"	Length ±.025"	Maximum Voltage	Lead (AWG)
SWP-2	0.1%	.06	50K	.100	.210	75	0.020
SWP-3	0.05%	.08	150K	.125	.260	100	.020/.025
SWP-4	0.05%	.10	250K	.125	.375	100	0.020
SWP-5	0.01%	.12	400K	.187	.250	150	0.025
SWP-6	0.01%	.15	500K	.187	.295	150	0.025
SWP-7	0.005%	.25	1 Meg	.210	.465	250	0.025
SWP-12	0.005%	.20	750K	.187	.450	200	0.025
SWP-13	0.05%	.10	250K	.156	.312	100	0.020
SWP-15	0.005%	.175	750K	.187	.375	200	0.025

Lead Lengths: 1.5" Minimum

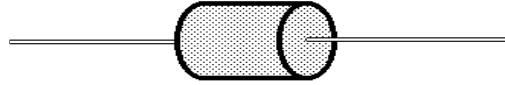
Standard Tolerances: 1%, 0.5%, 0.25%, 0.1%, 0.05%, 0.025%, 0.01%, 0.005%

Temperature Coefficients: 100Ω and up: ±10PPM/°C
 10Ω to 100Ω: ±20PPM/°C
 Below 10Ω: ±30PPM/°C



CODECO CORPORATION OF VERMONT

Axial Lead Series 100

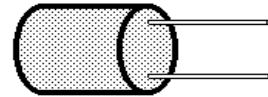


Type	Power (Watts)	Maximum Resistance	Diameter ±.005"	Length ±.025"	Maximum Voltage	Lead (AWG)
WP-100	0.20	800K	.250	.375	200	#20 or #22
WP-101	0.25	1.2 Meg	.250	.500	300	#20 or #22
WP-102	0.33	2.5 Meg	.250	.750	400	#20 or #22
WP-103	0.50	7.5 Meg	.375	.885	400	#20
WP-104	0.50	7.0 Meg	.500	.500	400	#20
WP-105	0.60	7.0 Meg	.500	.625	400	#20
WP-106	1.00	12.0 Meg	.500	1.000	800	#20
WP-107	1.50	15.0 Meg	.500	1.500	900	#20
WP-108	2.00	25.0 Meg	.500	2.000	1000	#20
WP-120	0.40	3.8 Meg	.375	.500	300	#20
WP-121	0.50	6.0 Meg	.375	.750	400	#20
WP-129	0.75	10.0 Meg	.375	1.000	600	#20
WP-139A	0.15	500K	.250	.250	100	#22
WP-153	1.75	15.0 Meg	.500	1.750	900	#20

Lead Length: 1.5" Minimum

Tolerances and TCs are the same as those shown for the SWP series.

Printed Circuit Board Series (Radial Leads)



Type	Power (Watts)	Maximum Resistance	Diameter ±.005"	Height ±.025"	Maximum Voltage	Lead Spacing	Lead Size
PWP-100	.125	500K	.250	.375	150	.150	.025
PWP-101	.25	600K	.250	.500	150	.150	.025
PWP-104	.50	1 Meg	.500	.500	400	.300	.032
PWP-120	.50	800K	.375	.500	300	.200	.032
PWP-130	.125	500K	.250	.312	150	.150	.025
PWP-131	.125	500K	.250	.312	150	.200	.025

Lead Length: 1" Minimum

Tolerances and TCs are the same as those shown for the SWP series.