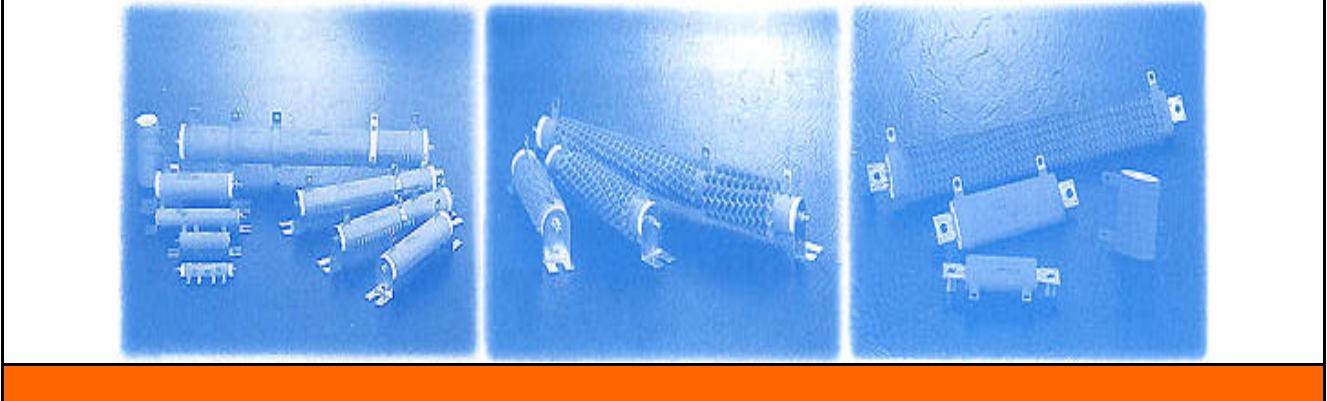


NON-FLAMMABLE FIXED WIREWOUND POWER RESISTORS (NPW)



DR Series

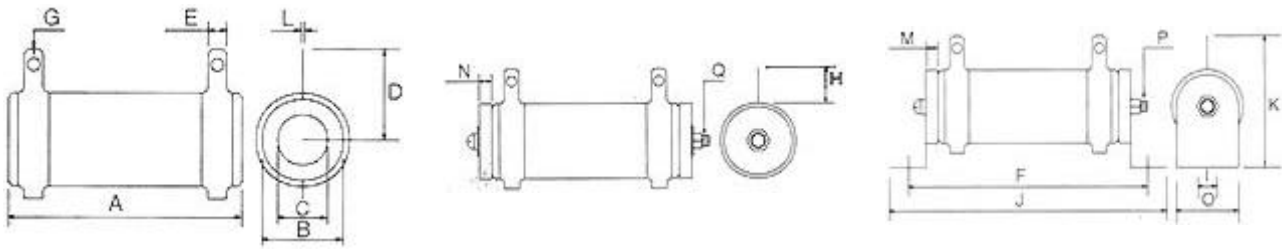


A tubular ceramic resistor which has two terminals is wound with copper wire or chromium alloy wire to provide the resistance and then surfaced with a high-temperature process and the mounts are attached. Since the Winding is excellent, many taps can be added, impedance is low and the shape can be altered to produce many types of resistors. These resistors are suitable for educational modeling applications, load testing, industrial machinery, electric power distribution, instruments and automation control installations, etc. For custom specifications, please contact us.

Features

- Smoke is emitted during the initial conductance of electricity by the resistor, but this is normal and the component is safe to use.
- Resistor coating complies with the U.S. UL-94 non-flammability test, Class V-0, a continuous combustion period of zero seconds.
- Corrosion-proof, with superior heat resistance characteristics,; low temperature coefficient and change in resistance is directly proportional.
- Excellent windings, supports placement of numerous taps, low impedance, and shape can be altered to produce a wide range of resistor types.
- Excellent flexibility. Special production orders accepted to accommodate individual customer specifications and requirements.

Dimensions



Rated Power	Dimension (mm)																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
10W	45	12	6	15	4	54	2	9	3	62	28	1.0		6	10		M3X68
20W	60	17	8	22	5	78	2	12	4	90	36	1.0		6	16	M3X68	M4X88
30W	80	17	8	22	5	100	2	12	4	112	36	1.0		6	16	M4X88	M4X108
40W	110	17	8	22	5	128	2	12	4	140	36	1.0		6	16	M4X118	M5X135
50W	110	25	16	30	8	150	5	18	6	166	58	1.2	6		27	M5X135	M5X135
60W	90	28	18	32	8	130	5	19	6	146	60	1.2	6		27	M4X115	M4X115
80W	110	28	18	32	8	150	5	19	6	166	60	1.2	6		27	M5X135	M5X135
100W	140	28	18	32	8	180	5	19	6	196	60	1.2	6		27	M5X165	M5X165
120W	160	28	18	32	8	200	5	19	6	216	60	1.2	6		27	M5X185	M5X185
150W	195	28	18	32	8	235	5	19	6	251	60	1.2	6		27	M5X230	M5X230
160W	185	35	24	36	10	225	5	19	8	245	76	1.6	6		34	M5X210	M5X210
200W	210	35	24	36	10	250	5	19	8	274	76	1.6	6		34	M5X245	M5X245
250W	210	40	25	38	12	250	5	20	8	274	78	1.6	6		34	M5X245	M5X245
300W	260	40	25	38	12	300	5	20	8	320	78	1.6	6		34	M5X295	M5X295
400W	330	40	25	38	12	370	5	20	8	395	78	1.6	6		34	M5X365	M5X365
500W	330	50	35	50	12	380	6	25	9	400	100	1.6	6		40	M5X365	M5X365
600W	400	50	35	50	12	450	6	25	9	470	100	1.6	8		40	M5X435	M5X435
700W	460	50	35	50	12	510	6	25	9	530	100	1.6	8		40	M5X495	M5X495
800W	460	60	40	55	15	515	6	30	10	535	110	1.6	108		50	M5X495	M5X495
1000W	540	60	40	55	15	595	6	30	10	615	110	1.6	10		50	M6X580	M5X580
1300W	650	65	42	62	15	702	6	30	10	722	115	1.6	10		50	M6X690	M5X690

DR Resistor Series:

A tubular ceramic resistor which has two terminals is wound with copper wire or chromium alloy wire to provide the resistance and then surfaced with a high-temperature process and the mounts are attached. Since the Winding is excellent, many taps can be added, impedance is low and the shape can be altered to produce many types of resistors. These resistors are suitable for educational modeling applications, load testing, industrial machinery, electric power distribution, instruments and automation control installations, etc, For custom specifications, please contact the company.

DQ Series

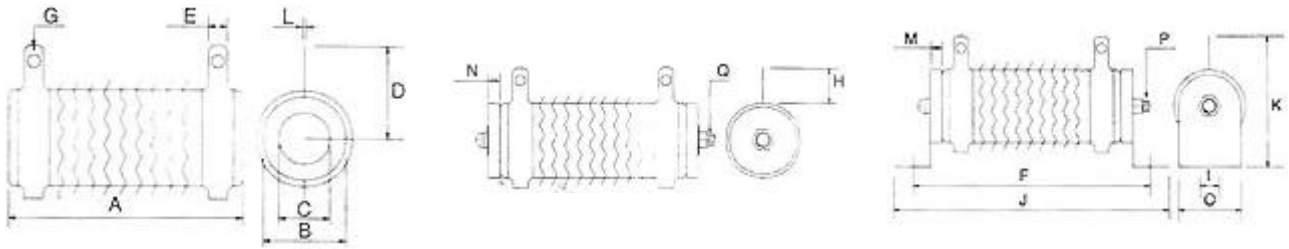


A tubular ceramic resistor which has two terminals is wound with a resistance element consisting of a wave-shaped alloy ribbon. A high-temperature, non-flammable resin insulation is applied after cooling and drying through a high-temperature process and then the component mounts are attached. The resistance value range is relatively low due to alloy material limitations (See the D resistor series if high resistance values are required). This product supports the use of numerous taps, is low impedance, and can be fabricated in various shapes to support a wide range of resistor applications. These resistors are suitable for educational modeling applications, load testing, industrial machinery, electric power distribution, instruments and automation control installations, etc. For custom specifications, please contact us to discuss the details.

Features

- Smoke is emitted during the initial conductance of electricity by the resistor, but this is normal and the component is safe to use.
- Resistor coating complies with the U.S. UL-94 non-flammability test, Class V-0, a continuous combustion period of zero seconds.
- Corrosion-proof, with superior heat resistance characteristics; low temperature coefficient and change in resistance is directly proportional.
- Excellent windings, supports placement of numerous taps, low impedance, and shape can be varied to produce a wide range of resistor types.
- Good heat dissipation and compact size with high current capability; the same appearance as the D resistor series, but 1.5 times larger in dimension.
- Excellent flexibility. Special production orders accepted to accommodate individual customer specifications and requirements.

Dimensions



Rated Power	Dimensions (mm)															
	A	B	C	D	E	F	G	H	I	J	K	L	M	O	P	Q
75W	110	25	16	30	8	150	5	18	6	166	58	1.2	6	27	M5X135	M5X135
90W	90	28	18	32	8	130	5	19	6	146	60	1.2	6	27	M5X115	M5X115
120W	110	28	18	32	8	150	5	19	6	166	60	1.2	6	27	M5X135	M5X135
150W	140	28	18	32	8	180	5	19	6	196	60	1.2	6	27	M5X165	M5X165
180W	160	28	18	32	8	200	5	19	6	216	60	1.2	6	27	M5X185	M5X185
225W	195	28	18	32	8	235	5	19	6	251	60	1.2	6	27	M5X230	M5X230
240W	185	35	24	36	10	225	5	19	8	245	76	1.6	6	34	M5X210	M5X210
300W	210	35	24	36	10	250	5	19	8	274	76	1.6	6	34	M5X245	M5X245
375W	210	40	25	38	12	250	5	20	8	274	78	1.6	6	34	M5X245	M5X245
450W	260	40	25	38	12	300	5	20	8	320	78	1.6	6	34	M5X295	M5X295
600W	330	40	25	38	12	370	5	20	8	395	78	1.6	6	34	M5X365	M5X365
750W	330	50	35	50	12	380	6	25	9	400	100	1.6	8	40	M5X365	M5X365
900W	400	50	35	50	12	450	6	25	9	470	100	1.6	8	40	M5X435	M5X435
1000W	460	50	35	50	12	510	6	25	9	530	100	1.6	8	40	M5X495	M5X495
1200W	460	60	40	55	15	515	6	30	10	535	110	1.6	10	50	M5X495	M5X495
1500W	540	60	40	55	15	595	6	30	10	615	110	1.6	10	50	M6X580	M5X580
2000W	650	65	42	62	15	702	6	30	10	722	115	1.6	10	50	M6X690	M5X690

DQ Resistor Series:

A tubular ceramic resistor which has two terminals is wound with a resistance element consisting of a wave-shaped alloy ribbon. A high-temperature, non-flammable resin insulation is applied after cooling and drying through a high-temperature process and then the component mounts are attached. The resistance value range is relatively low due to alloy material limitations (See the D resistor series if high resistance values are required). This product supports the use of numerous taps, is low impedance, and can be fabricated in various shapes to support a wide range of resistor applications. These resistors are suitable for educational modeling applications, load testing, industrial machinery, electric power distribution, instruments and automation control installations, etc. For custom specifications, please contact us to discuss the details.

ZR Series



A flat tubular ceramic resistor which has two terminals is wound with either copper wire or chromium alloy wire as the resistance element. Surfaced with a high-temperature, non-flammable resin coating, cooled and dried, and then encapsulated in insulation through a high-temperature process before the final installation of the component mount. Mainly utilized in industrial installations where height is limited. Due to the excellent windings, many taps can be added. Impedance is low, and PC board is insertable. It is usable for many other integrated applications. These resistors are suitable for educational modeling applications, load testing, industrial machinery, electric power distribution, instruments and automation control installations, etc. For custom specifications, please contact us to discuss the details.

Features

- Smoke is emitted during the initial conductance of electricity by the resistor, but this is normal and the component is safe to use.
- Resistor coating complies with the U.S. UL-94 non-flammability test, Class V-0, a continuous combustion period of zero seconds.
- Corrosion-proof, with superior heat resistance characteristics; low temperature coefficient and change in resistance is directly proportional.
- Excellent windings, supports placement of numerous taps, low impedance, and shape can be varied to produce a wide range of resistor types.
- Good heat dissipation and compact size with high current capability; the same appearance as the D resistor series, but 1.5 times larger in dimension.
- Excellent flexibility. Special production orders accepted to accommodate individual customer specifications and requirements.

Dimensions



Rated Power	Dimensions (mm)											
ZZR TYPE	A	B	C	D	E	F	G	H	I	J	K	ZQR TYPE
40W	83	70	50	28	11	5.2	4.1	13	6.5	12	42	60W
55W	123	110	90	28	11	5.2	4.1	13	6.5	12	42	82W
70W	153	140	120	28	11	5.2	4.1	13	6.5	12	42	105W
95W	183	170	150	28	11	5.2	4.1	13	6.5	12	42	140W
100W	193	180	160	28	11	5.2	4.1	13	6.5	12	42	150W
120W	218	205	185	28	11	5.2	4.1	13	6.5	12	42	180W
150W	218	205	185	35	11	5.2	5.2	13	9	13	46	225W
200W	243	230	210	35	11	5.2	5.2	13	9	13	46	300W
250W	287	274	254	35	11	5.2	5.2	13	9	13	48	375W
300W	333	320	300	35	11	5.2	5.2	13	9	13	48	450W

ZR Resistor Series:

A flat tubular ceramic resistor which has two terminals is wound with either copper wire or chromium alloy wire as the resistance element. Surfaced with a high-temperature, non-flammable resin coating, cooled and dried, and then encapsulated in insulation through a high-temperature process before the final installation of the component mount. Mainly utilized in industrial installations where height is limited. Due to the excellent windings, many taps can be added. Impedance is low, and PC board is insertable. It is usable for many other integrated applications. These resistors are suitable for educational modeling applications, load testing, industrial machinery, electric power distribution, instruments and automation control installations, etc. For custom specifications, please contact us to discuss the details.