


KR SERIES WIRE WOUND FIXED RESISTORS

GENERAL SPECIFICATIONS

Model	Power Rating[W]	Resistance Range [ohms]	Weight [g]	
KR	80	120	0.02-4	140
	100	150	0.03-5	170
KRIB	120	180	0.03-6	200
	150	225	0.04-8	250
KRG	200	300	0.05-10	306
	300	450	0.08-15	650
KZRG	400	600	0.10-20	800



Tolerance: K (+/-10%)

CHARACTERISTICS

Values in [] mean change in ohmic value after test

Temp. Coefficient	+-400ppm/C max.	
Power Rating Load	[Change in R/R = +/-1%]	375C max.
Short Time Overload	[Change in R/R = +/-2%]	300% rated power 5 sec.
Insulation Resistance	100Mohm min. DC 500V	
Dielectric Withstanding V.	KR, KRZ: AC 2000V 1 min., KRZG: AC 3000V 1 min.	
Terminal Strength	10mm: 20KgF 30sec., 16mm: 20KgF 30sec.	
Resistor Strength	30FgF 30sec.	
Vibration	Mount: KRG type, 1.5mm 10-55Hz/1min.X,Y,Z 2 hours.	
Heat Resistance	375C 2 hrs.	
Thermal Shock	[Change in R/R = +/-2%]	Power rating load-30min. -55C-15min.
Humidity (Steady state)	[Change in R/R = +/-2%, 10M ohm min.]	40C, 95%RH, 500 hrs.
Load Life in Humidity	[Change in R/R = +/-2%]	10% Rated Power, 90min ON, 30min OFF, 40C, 95%RH, 500hrs.
Load Life	[Change in R/R = +/-5%]	Power rating, 90 min. ON, 30min OFF, 500hrs.
Flame Retardancy	100-600% rated power load	

SHORT TIME OVER LOAD RATING

An overload exceeding the normal current is allowed for a short duration of 30 minutes or less									
Load time(sec)	5	10	30	60	180	300	600	900	1800
Max Rated Load (%)	400%	350%	250%	200%	140%	120%	110%	105%	100%

NEMA ON-OFF CYCLING

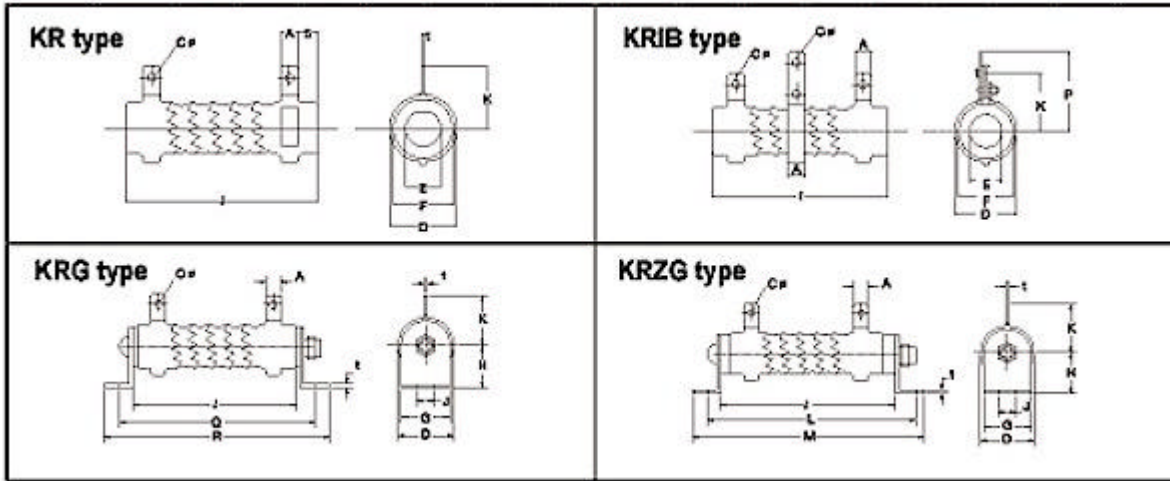
Cycling Time [sec]	5sec. ON 74sec. OFF	10sec. ON 70sec. OFF	15sec. ON 45sec. OFF	15sec. ON 45sec. OFF	15sec. ON 30sec. OFF	15sec. ON 15sec. OFF
Max Amps Rated Load	290%	245%	185%	160%	150%	125%

CURRENT REDUCTION RATE (%) FOR GROUPED APPLICATIONS

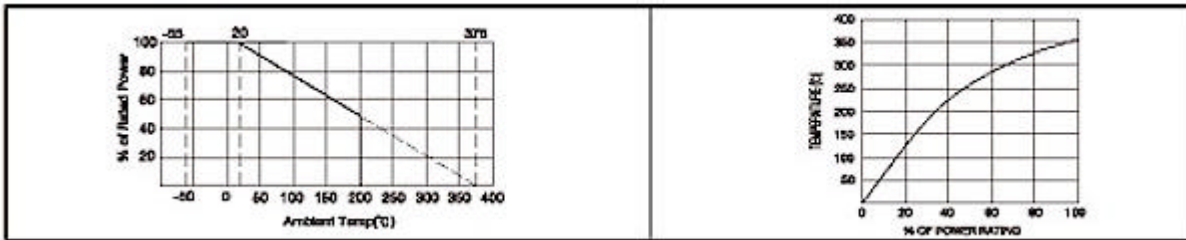
EA	2	3	4	6	9	12	16
%	84	80	78	76	75	73	71

DIMENSIONS

Model	Shape	Dimensions [mm]															
		A	C	D	E	F	G	H	J	K	(l)	I	M	P	Q	R	T
KR KRIB KRG KRZG	80	8	4	28	14	26	26	30	6	33	115	150	173	35	140	161	1.4
	100	8	4	28	14	26	26	30	6	33	140	175	198	35	168	189	1.4
	120	8	4	28	14	26	26	30	6	33	165	200	221	35	190	212	1.4
	150	8	4	28	14	26	26	30	6	33	195	230	253	35	220	242	1.4
	200	8	4	28	14	26	26	30	6	33	254	290	313	35	280	300	1.4
	300	12	5.5	42	24	40	40	40	6.5	45	254	300	330	52	285	316	1.6
	400	12	5.5	42	24	40	40	40	6.5	45	330	380	407	52	360	388	1.6



DERATING CURVE AND TEMPERATURE RISE DATA



STANDARD RESISTANCE VALUES AND MAXIMUM CURRENT

	Ohmic Value													
Model	0.02	0.03	0.04	0.05	0.06	0.08	0.1	0.15	0.2	0.25	0.3	0.4	0.5	0.6
K-80	77A	63	55	50	45	39	35	28	25	22	20	17	15	14
K-100		71A	61	55	50	43	39	32	27	25	22	19	17	16
K-120		78A	67	60	55	48	43	35	30	27	24	21	19	18
K-150			75A	67	61	53	47	39	33	30	27	24	21	19
K-200				77A	71	61	55	45	39	35	32	27	24	22
K-300						75A	67	55	47	42	39	33	30	27
K-400							77A	63	55	49	45	39	35	31

	Ohmic Value													
Model	0.8	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0	12.0	15.0	20.0
K-80	12	11	9	7.8	6.9	6.3	5.5							
K-100	14	12	10	8.6	7.8	7.1	6.1	5.5						
K-120	15	13	11	9.5	8.5	7.8	6.7	6.1	5.3					
K-150	17	15	12	11	9.5	8.7	7.5	6.7	6.1	5.3				
K-200	19	17	14	12	11	10	8.6	7.7	7.1	6.1	5.5			
K-300	24	21	17	15	13.5	12	10	9.5	8.6	7.5	6.7	6.1	5.5	
K-400	27	24	20	17	15.1	14	12	11	10	8.7	7.7	7.0	6.3	5.5

ORDERING PROCEDURE EXAMPLE

KR100	0.102ohms	K
Model Number	Resistance	Tolerance