

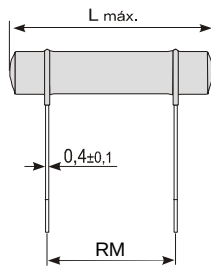
Power Wirewound Resistors
radial, fibre glass core, coated



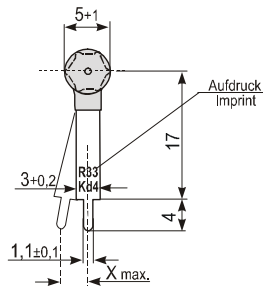
Specifications

Type		KP290	KP292	KP294	KP296	KP298
Styles		0518	0523	0533	0543	0553
Power rating P_{70}	W	2,0	4,0	5,0	6,5	8,0
Resistance range	Ω	0R1 ... 7K5	0R15 ... 11K	0R27 ... 20K	0R39 ... 27K	0R47 ... 36K
E-Series		E 24/E 12	E 24/E 12	E 24/E 12	E 24/E 12	E 24/E 12
Tolerances	%	± 10 $\pm 5 \geq 0R2$	± 10 $\pm 5 \geq 0R3$	± 10 $\pm 5 \geq 0R47$	± 10 $\pm 5 \geq 0R68$	± 10 $\pm 5 \geq 0R91$
Temperature coefficient	$10^{-6} \cdot K^{-1}$	- 80 ... + 500				
max. cont. work. voltage	V_{RMS}	$\sqrt{P_{70} \cdot R}$ for all styles				
Insulation voltage (1min.)	V_{RMS}	max 75				
Insulation resistance	Ω	not insulated				
Derating linear	$^{\circ}C$	70 ... 350 (0W)				
Climatic category		55/200/56				
Temperature range	$^{\circ}C$	- 55 ... 350				
Thermal resistance	KW^{-1}	110	70	60	50	40
Failure rate (Total, ϑ_o , max., 60% conf. lev.)	$10^{-9} \cdot h^{-1}$	appr. 100, depends on value				
Endurance (P_{70} , 70 $^{\circ}C$, 1000)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 3,0$ average				
Damp heat, steady state (40 $^{\circ}C$, 93% r.h., 56d)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 2,0$				
Climatic sequence	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 2,0$				
Terminal strength	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 1,0$				
Terminal tensile strength	N	40				
Resistance to soldering heat (260 $^{\circ}C$, 10s)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 0,2$ typ.				
Solderability	s	solderable according to IEC 60068-2-20 Ta				
Marking		on termination; value 3 digits, Tolerance, Production date code				

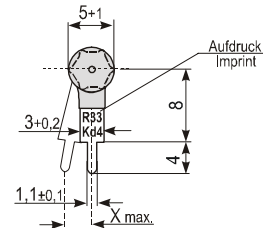
Dimensions in mm:



Type 290-0... 298-0

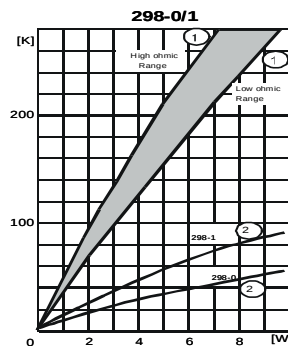
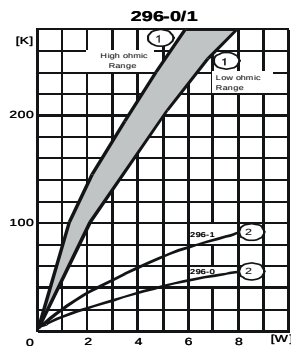
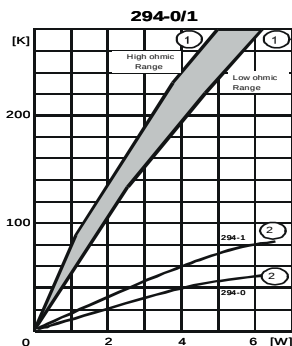
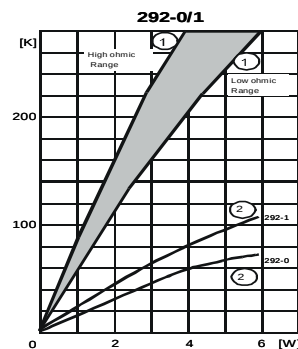
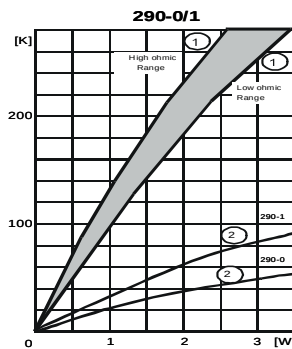
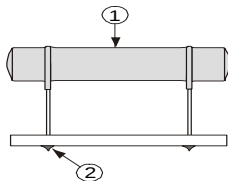


Type 290-1... 298-1



Type	L	RM
KP290-0/1	18,2	10
KP292-0/1	23,3	15
KP294-0/1	33,4	25
KP296-0/1	43,5	35
KP298-0/1	53,7	45

Type	RM Tolerance	Xmax.
KP29x-0	+1,0	3,0
KP29x-1	+0,8	1,7

Temperature rise:
(solder joints)

Packaging:

Type	Packaging	Pieces	Pack.-Code
KP290-0	bulk	500	B
KP290-1		1000	
KP292-0	bulk	500	B
KP292-1		1000	
KP294-0	bulk	250	B
KP294-1		500	
KP296-0	bulk	250	B
KP296-1		500	
KP298-0	bulk	250	B
KP298-1		250	

Ordering example:

KP294-1
Type

5

Tolerance

B

Pack.-Code

1K3

R-Value

Revision 200807