

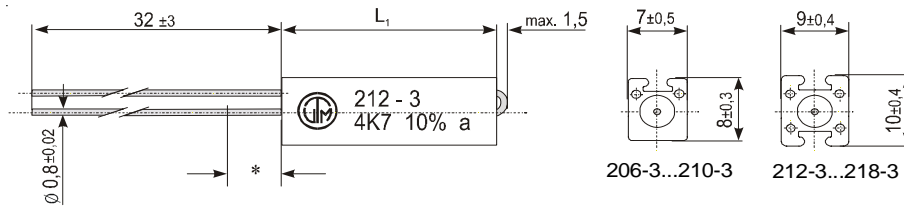
## Power Wirewound Ceramic Resistors, vertical



## Specifications

Type		KV206-3	KV208-3	KV210-3	KV212-3	KV214-3	KV216-3	KV218-3
Power rating $P_{70}$	W	4	5	7	7	9	11	17
Resistance range	$\Omega$	see page 2						
E-Series		E 24 (5%), E 12 (10%)						
Tolerances	%	$\pm 5, \pm 10$						
Temperature coefficient	$10^{-6} \cdot K^{-1}$	depends on value see table 3						
max. cont. work. voltage	$V_{RMS}$	$\sqrt{P_{70} \cdot R}$ for all styles						
Insulation voltage (1min.)	$V_{RMS}$	2000						
Insulation resistance	$\Omega$	$> 10^4$						
Derating linear	$^{\circ}C$	linear 70 ... 350 (0W)						
Climatic category		55/200/21						
Temperature range	$^{\circ}C$	- 55 ... 350						
Thermal resistance	$KW^{-1}$	65	50	40	40	30	25	15
Failure rate (Total, $\vartheta_o$ , max., 60% conf. lev.)	$10^{-9} \cdot h^{-1}$	appr. 100, depends on value						
Endurance ( $P_{70}$ , 70 $^{\circ}C$ , 1000h)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 3,0$ 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	50						
Resistance to soldering heat (260 $^{\circ}C$ , 10s)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 0,2$ typ.						
Solderability	s	2,5 Flowtime; solderglobule test IEC 60068-2-20-T						
Standards		CECC 40202-001 and -005 applicable DIN 45921 T 202						
Marking		Printed in clear						

Dimensions in mm:



\* 6mm, reduced solderability in this area

Type	Resistance range			L <sub>1</sub>
	10%	Min 5%	Max	
KV206-3	0R056	0R1	9K1	20 ±1,0
KV208-3	0R075	0R15	15K	25 ±1,0
KV210-3	0R11	0R33	33K	38 ±1,0
KV212-3	0R075	0R15	15K	25 ±1,0
KV214-3	0R11	0R33	33K	38 ±1,0
KV216-3	0R15	0R51	47K	50 ±1,5
KV218-3	0R27	0R91	82K	75 ±2,0

Temperature coefficient:

Type	TC +400 ±50 ppm K <sup>-1</sup>	TC 0 ±40 ppm K <sup>-1</sup>	TC 0 ±10 ppm K <sup>-1</sup>
KV206	0R056 ... 0R2	0R22 ... 300R	330R ... 9K1
KV208	0R075 ... 0R3	0R33 ... 470R	510R ... 15K
KV210	0R11 ... 0R68	0R75 ... 910R	1K0 ... 33K
KV212	0R075 ... 0R3	0R33 ... 470R	510R ... 15K
KV214	0R11 ... 0R68	0R75 ... 910R	1K0 ... 33K
KV216	0R15 ... 1R	1R1 ... 1K3	1K5 ... 47K
KV218	0R27 ... 1R6	1R8 ... 2K4	2K7 ... 82K

Packaging:

Type	Packaging	Pieces	Pack.-Code
KV206-3	bulk	200	B
KV208-3	bulk	200	B
KV210-3	bulk	200	B
KV212-3	bulk	200	B
KV214-3	bulk	200	B
KV216-3	bulk	200	B
KV218-3	bulk	100	B

Ordering example:

KV206-3	5	B	1K3
Type	Tolerance	Pack.-Code	R-Value