

PRODUCT DATASHEET

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Datasheet begins on next page.

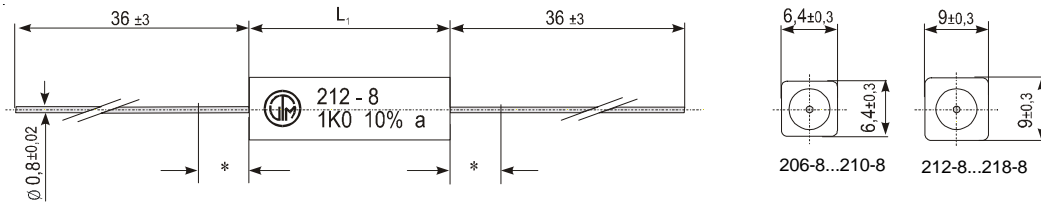
Power Wirewound Ceramic Resistors, axial



Specifications

Type		KH206-8	KH208-8	KH210-8	KH212-8	KH214-8	KH216-8	KH218-8
Power rating P_{70}	W	4	5	7	7	9	11	17
Resistance range	Ω	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	Ω	$> 10^4$						
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, ϑ_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 ₁
	10%	Min 5%	Max	
KH206-8	0R056	0R1	9K1	20 ±1,0
KH208-8	0R075	0R15	15K	25 ±1,0
KH210-8	0R11	0R33	33K	38 ±1,0
KH212-8	0R075	0R15	15K	25 ±1,0
KH214-8	0R11	0R33	33K	38 ±1,0
KH216-8	0R15	0R51	47K	50 ±1,5
KH218-8	0R27	0R91	82K	75 ±2,0

Temperature coefficient:

Type	TC +400 ±50 ppm K ⁻¹	TC 0 ±40 ppm K ⁻¹	TC 0 ±10 ppm K ⁻¹
KH206	0R056 ... 0R2	0R22 ... 300R	330R ... 9K1
KH208	0R075 ... 0R3	0R33 ... 470R	510R ... 15K
KH210	0R11 ... 0R68	0R75 ... 910R	1K0 ... 33K
KH212	0R075 ... 0R3	0R33 ... 470R	510R ... 15K
KH214	0R11 ... 0R68	0R75 ... 910R	1K0 ... 33K
KH216	0R15 ... 1R	1R1 ... 1K3	1K5 ... 47K
KH218	0R27 ... 1R6	1R8 ... 2K4	2K7 ... 82K

Packaging:

Type	Packaging	Pieces	Pack.-Code
KH206-8	bulk	200	B
	taped	1000	R
KH208-8	bulk	200	B
	taped	1000	R
KH210-8	bulk	200	B
	taped	1000	R
KH212-8	bulk	200	B
	taped	500	R
KH214-8	bulk	100	B
	taped	500	R
KH216-8	bulk	100	B
KH218-8	bulk	100	B

Ordering example:

KH206-8	5	B	9R1
Type	Tolerance	Pack.-Code	R-Value

Revision 200807