

Power Wirewound Ceramic Resistors, axial

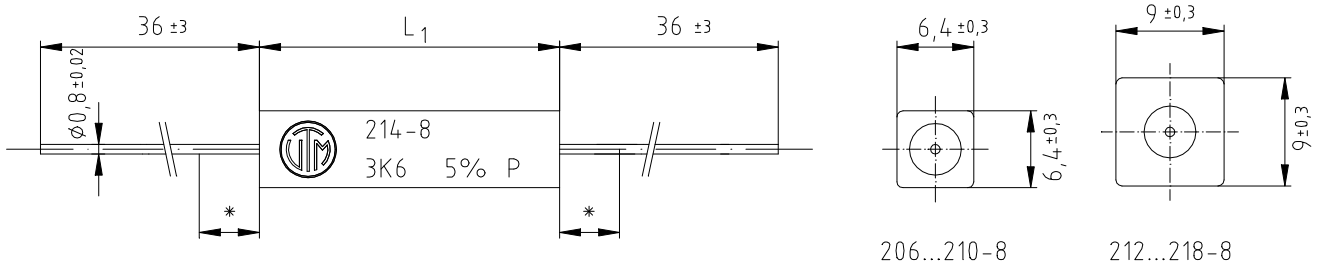
Specification

Type		206-8	208-8	210-8	212-8	214-8	216-8	218-8
Power rating P_{70}	W	4	5	7	7	9	11	17
Resistance range		see Page 2						
E-series		E 24 (5%), E 12 (10%)						
Tolerance	%	$\pm 5, \pm 10$						
Temperature coefficient	$10^{-6} * K^{-1}$	depends on value see table page 3						
max. cont. working voltage	V_{RMS}	$\sqrt{P_{70} \cdot R}$ for all Styles						
Insulation voltage (1min.)	V_{RMS}	2000						
Insulation resistance	M Ω	$> 10^4$						
Derating	$^{\circ}C$	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_0 max., 60% conf. lev.)	$10^{-9} * h^{-1}$	appr. 100, depends on value						
Endurance (P_{70} , @70 $^{\circ}C$, 1000h, interm.)	$\left[\frac{\Delta R}{R} \right]$ %	$\pm 3,0$ average						
Damp heat, steady state (40 $^{\circ}C$, 93% r. h., 56d)	$\left[\frac{\Delta R}{R} \right]$ %	$\pm 2,0$						
Climatic sequence	$\left[\frac{\Delta R}{R} \right]$ %	$\pm 2,0$						
Resistance to soldering heat (260 $^{\circ}C$, 10s)	$\left[\frac{\Delta R}{R} \right]$ %	$\pm 0,2$ typ.						
Terminal strength	$\left[\frac{\Delta R}{R} \right]$ %	$\pm 1,0$						
Terminal tensile strength	N	50						
Solderability	s	2,5 Flowtime; solderglobule test IEC 60068-2-20-T						

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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%	5%	Max.	
206-8	R056	R10	9K1	20 ±1,0
208-8	R075	R15	15K	25 ±1,0
210-8	R11	R33	33K	38 ±1,0
212-8	R075	R15	15K	25 ±1,0
214-8	R11	R33	33K	38 ±1,0
216-8	R15	R51	47K	50 ±1,5
218-8	R27	R91	82K	75 ±2,0

Series KH

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Temperature coefficient:

Type	TC +400 ±50 ppm K ⁻¹	TC +0 ±40 ppm K ⁻¹	TC +0 ±10 ppm K ⁻¹
206	R056 ... R20	R22 ... 300R	330R ... 9K1
208	R075 ... R30	R33 ... 470R	510R ... 15K
210	R11 ... R68	R75 ... 910R	1K0 ... 33K
212	R075 ... R30	R33 ... 470R	510R ... 15K
214	R11 ... R68	R75 ... 910R	1K0 ... 33K
216	R15 ... 1R0	1R1 ... 1K3	1K5 ... 47K
218	R27 ... 1R6	1R8 ... 2K4	2K7 ... 82K

Packaging:

Type	Packaging	Pieces	Pack.-Code
206-8	bulk taped	200	B
		1000	R
208-8	bulk taped	200	B
		1000	R
210-8	bulk taped	200	B
		1000	R
212-8	bulk taped	200	B
		1000	R
214-8	bulk taped	100	B
		500	R
216-8	bulk	100	B
218-8	bulk	100	B

Ordering example: KH 206-8 5 B 9R1
 Type Tolerance Pack.-Code R-Value