

Power Wirewound Ceramic Resistors, axial

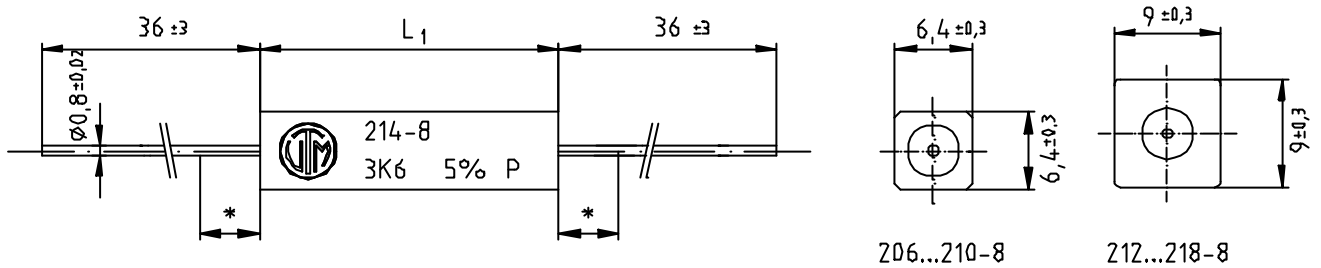
Specification

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		see Page 2						
E-series		E 24 (5%), E 12 (10%)						
Tolerance	%	± 5, ± 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	MΩ	> 10 ⁴						
Derating	°C	linear 70 ... 350 (0W)						
Climatic category		55/200/21						
Temperature range	°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°C, 1000h, interm.)	$\left[\frac{\Delta R}{R}\right]$ %	± 3,0 average						
Damp heat, steady state (40°C, 93% r. h., 56d)	$\left[\frac{\Delta R}{R}\right]$ %	± 2,0						
Climatic sequence	$\left[\frac{\Delta R}{R}\right]$ %	± 2,0						
Resistance to soldering heat (260°C, 10s)	$\left[\frac{\Delta R}{R}\right]$ %	± 0,2 typ.						
Terminal strength	$\left[\frac{\Delta R}{R}\right]$ %	± 1,0						
Terminal tensile strength	N	50						
Solderability	s	2,5 Flowtime; solderglobule test IEC 60068-2-20-T						

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Type	KH206-8	KH208-8	KH210-8	KH212-8	KH214-8	KH216-8	KH218-8
Standards	CECC 40202-001 and -005 applicable						
Marking	Printed in clear						

Dimensions in mm:



* 6mm, reduced solderability in this area

Type	Resistance range			L ₁
	Min.		Max.	
	10%	5%		
KH206-8	0R056	0R10	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

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
KH206	R056 ... R20	R22 ... 300R	330R ... 9K1
KH208	R075 ... R30	R33 ... 470R	510R ... 15K
KH210	R11 ... R68	R75 ... 910R	1K0 ... 33K
KH212	R075 ... R30	R33 ... 470R	510R ... 15K
KH214	R11 ... R68	R75 ... 910R	1K0 ... 33K
KH216	R15 ... 1R0	1R1 ... 1K3	1K5 ... 47K
KH218	R27 ... 1R6	1R8 ... 2K4	2K7 ... 82K

Packaging:

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

Taping in accordance to IEC 60286-1 only reel available

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