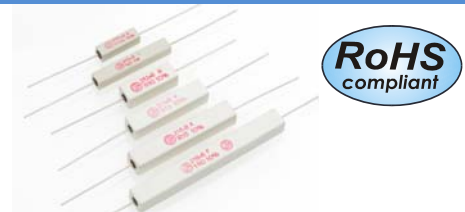


## Power Wirewound Resistors

### Axial, Fiber glass core

### Ceramic case



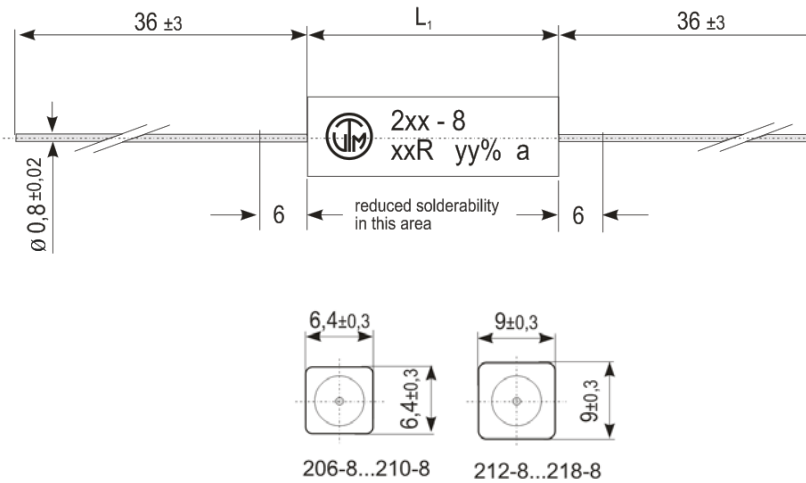
#### ELECTRICAL SPECIFICATIONS

Type		206-8	208-8	210-8	212-8	214-8	216-8	218-8
<u>Nominal Power rating</u> $P_{70}$	[W]	4	5	7	7	9	11	17
<u>Resistance range</u>	[Ω]	*Please check the table below						
	Min							
	Max	9K1	15K	33K	15K	33K	47K	82K
<u>E-Series</u>		E24 (5[%]), E12 (10[%])						
<u>Tolerances</u>	± [%]	5, 10						
<u>Temperature coefficient</u>	[ $10^{-6} \cdot K^{-1}$ ]	*Depends on the value, please check the table below						
<u>Temperature range</u>	[°C]	-55 ... +350						
<u>Thermal resistance</u>	[ $KW^{-1}$ ]	70	56	40	40	31	25	16
<u>Dielectric withstanding voltage</u> <i>IEC115-1 clause 4.7 (1[<i>min</i>])</i>	[V]	2000						
<u>Insulation resistance</u> <i>IEC115-1 clause 4.6</i>	[ $M\Omega$ ]	> $10^4$						
<u>Max. working voltage</u>	[ $V_{RMS}$ ]	$\sqrt{P_{70} \cdot R}$						

#### PERFORMANCE DATA

<u>Derating linear</u>	[°C]	70...350 (0W)						
<u>Climatic category</u>		55/200/21						
<u>Failure Rate</u> <i>(Total, <math>\theta_j</math>, max, 60% cont. lev.)</i>	[ $10^{-9} h^{-1}$ ]	appr. 100 depends on value						
<u>Endurance</u> <i>IEC60115-1 clause 4.25 (<math>P_{70}</math>, @ 70[°C], 1000[h])</i>	± [%]	3,0						
<u>Damp heat, steady state</u> <i>IEC115-1 clause 4.24 (40[°C], 93[% r.h.], 56[d])</i>	± [%]	2,0						
<u>Climatic sequence</u> <i>IEC115-1 clause 4.23</i>	± [%]	2,0						
<u>Terminal strength</u>	± [%]	1,0						
<u>Terminal Tensile Strength</u>	[N]	50						
<u>Resistance to soldering heat</u> <i>IEC115-1 clause 4.18 (260<sup>±5</sup>[°C], 3,5<sup>±1</sup>[s])</i>	± [%]	± 0,2						
<u>Solderability</u> <i>IEC 60068-2-20 (245<sup>±5</sup>[°C], 3<sup>±0,5</sup>[s])</i>		Solder bath method (Min. 95% coverage)						
<u>Marking</u> <i>IEC60062</i>		Printed in clear						

DIMENSIONS [mm]



Type	L <sub>1</sub>
206-8	20 <sup>±1,0</sup>
208-8	25 <sup>±1,0</sup>
210-8	38 <sup>±1,0</sup>
212-8	25 <sup>±1,0</sup>
214-8	38 <sup>±1,0</sup>
216-8	50 <sup>±1,5</sup>
218-8	75 <sup>±2,0</sup>

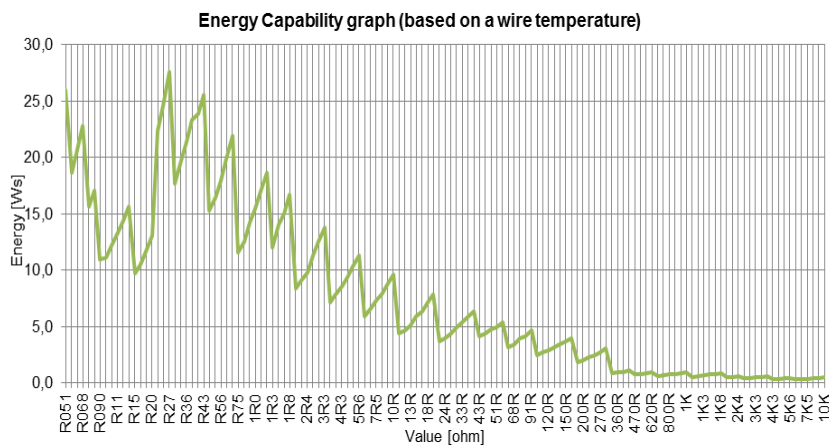
ELECTRICAL CHARACTERISTIC

Type	Resistance range [minimum]	
	±10 [%]	±5 [%]
KH206	0R056	0R1
KH208	0R075	0R15
KH210	0R11	0R33
KH212	0R075	0R15
KH214	0R11	0R33
KH216	0R15	0R51
KH218	0R27	0R91

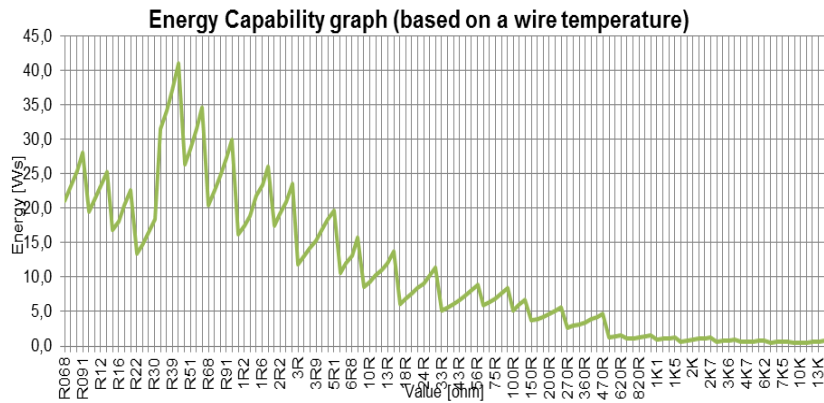
Type	Temperature coefficient [ppm K <sup>-1</sup> ]		
	TC +400 <sup>±50</sup>	TC 0 <sup>±40</sup>	TC 0 <sup>±10</sup>
KH206	0R056...0R2	0R22...300R	330R...9K1
KH208	0R075...0R3	0R33...470R	510R...15K
KH210	0R11...0R68	0R75...910R	1K...33K
KH212	0R075...0R3	0R33...470R	510R...15K
KH214	0R11...0R68	0R75...910R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

ELECTRICAL PERFORMANCE

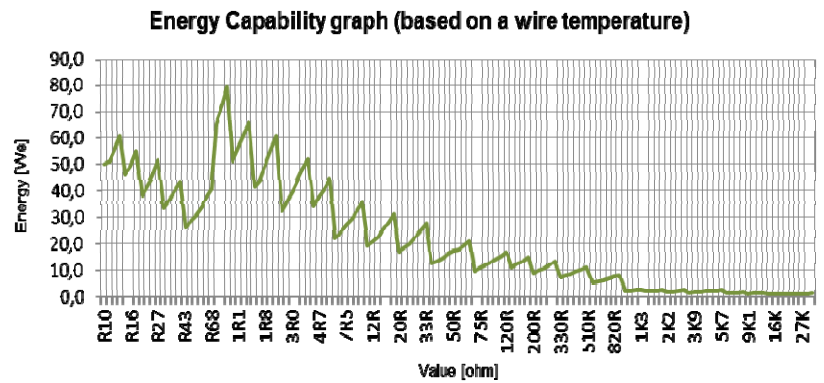
KH206-8



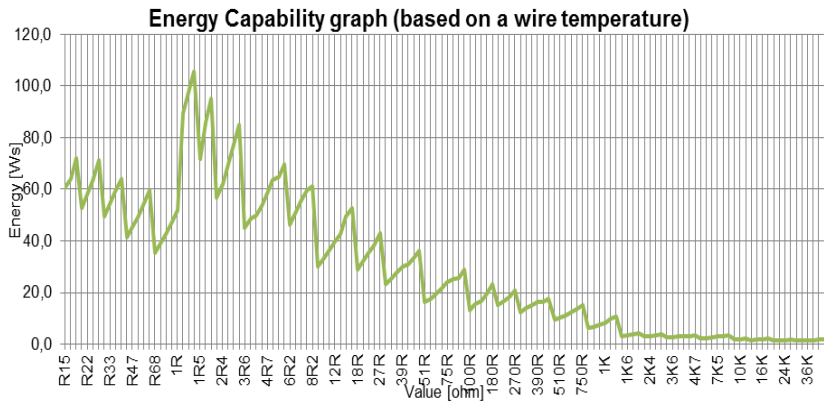
KH208-8 and KH212-8



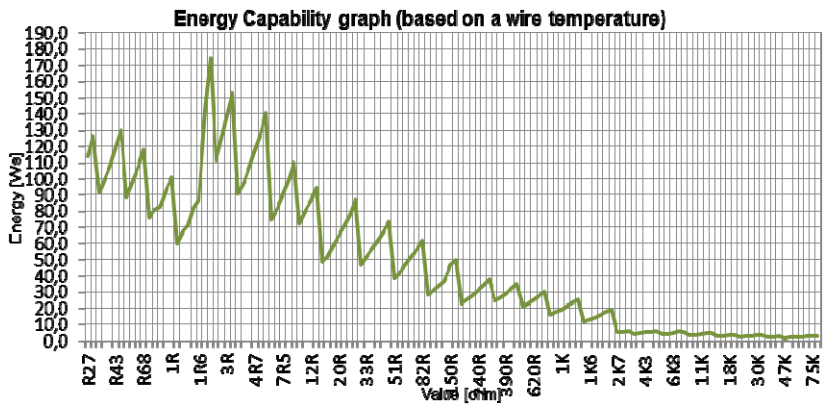
KH210-8 and KH214-8



KH216-8

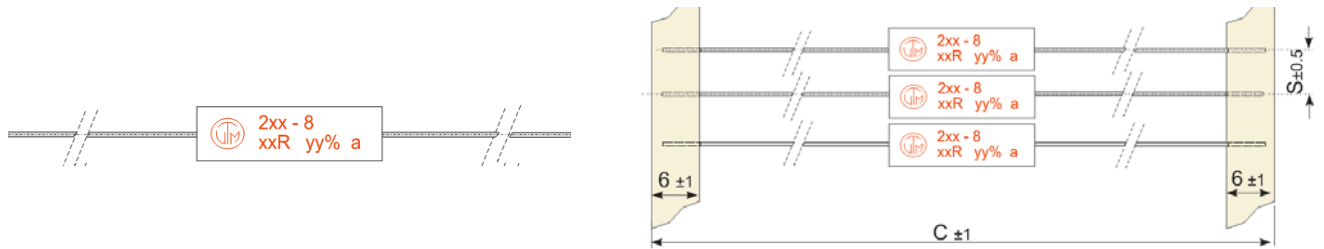


KH218-8



## PACKAGING

The standard packaging for KH in axial type is bulk, dimensions below.



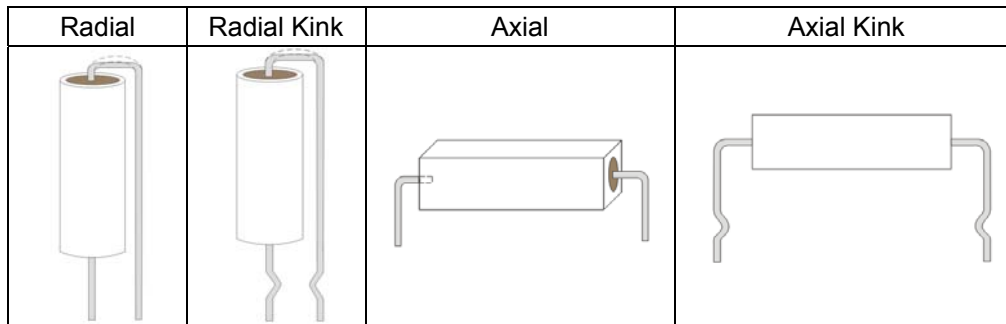
Type	Packaging	Pieces	Pack. Code
KH206-8	Bulk	200	B
KH208-8		200	
KH210-8		200	
KH212-8		200	
KH214-8		200	
KH216-8		100	
KH218-8		100	

Type	Packaging	Pieces	Pack. Code	C	S
KH206-8	Taped in Reel	1000	R	95	10
KH208-8		1000		95	10
KH210-8		1000		95	10
KH212-8		500		95	10
KH214-8		500		95	10

## ALTERNATIVE LEAD CONFIGURATIONS

This type KH, is also available in a different pre-forming, as shown below, other's upon request.

## THROUGH HOLE VERSION



\*For horizontal and vertical pre-forming please consult your local sales contact.

## ORDERING EXAMPLE

<b>KH206-8</b>	<b>10</b>	<b>B</b>	<b>100R</b>
Type	Tolerance	Pack-Code	R-Value