

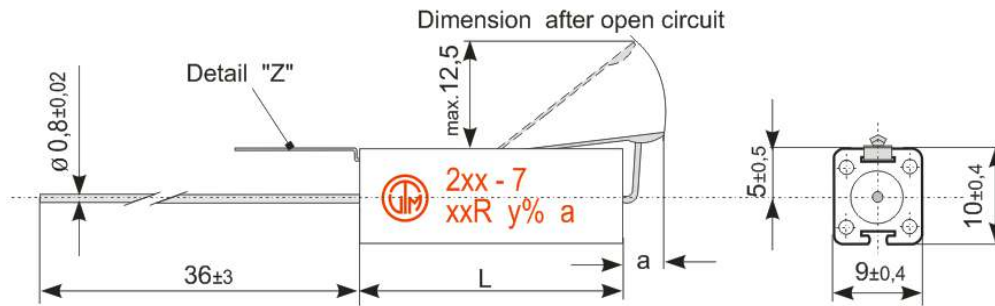
**Power Fusible Wirewound Resistors**  
**Vertical, Fibre glass core**  
**Ceramic case**



ELECTRICAL SPECIFICATIONS				
Type		212-7	214-7	216-7
<u>Nominal Power rating</u> $P_{70}$	[W]	2	2,5	3,5
<u>Resistance range</u>	[ $\Omega$ ]	*Please check the table below		
	Min			
	Max	15K	33K	47K
<u>E-Series</u>		E24 (5[%]), E12 (10[%])		
<u>Tolerances</u>	$\pm$ [%]	5, 10		
<u>Temperature coefficient</u>	[ $10^{-6} \cdot K^{-1}$ ]	*Depends on the value, please check the table below		
<u>Temperature range</u>	[ $^{\circ}C$ ]	-55 ... +150		
<u>Dielectric withstanding voltage</u> IEC115-1 clause 4.7 (1[min])	[V]	2000		
<u>Max. working voltage</u>	[V] <sub>RMS</sub>	$\sqrt{P_{70} \cdot R}$		
<u>Insulation resistance</u> IEC115-1 clause 4.6	[M $\Omega$ ]	> $10^4$		

PERFORMANCE DATA				
<u>Derating linear</u>	[ $^{\circ}C$ ]	Linear 70...150 (0[W])		
<u>Climatic category</u>		55/150/56		
<u>Failure Rate</u> (Total, $\rho_o$ , max, 60% cont. lev.)	[ $10^{-9} h^{-1}$ ]	appr. 100 depends on value		
<u>Endurance</u> IEC60115-1 clause 4.25 ( $P_{70}$ , @ 70[ $^{\circ}C$ ], 1000[h])	$\pm$ [%]	3,0		
<u>Damp heat, steady state</u> IEC115-1 clause 4.24 (40[ $^{\circ}C$ ], 93[% r.h.], 56[d])	$\pm$ [%]	2,0		
<u>Climatic sequence</u> IEC115-1 clause 4.23	$\pm$ [%]	2,0		
<u>Terminal strength</u>	$\pm$ [%]	1,0		
<u>Terminal Tensile Strength</u>	[N]	50		
<u>Resistance to soldering heat</u> IEC115-1 clause 4.12 (260[ $^{\circ}C$ ], 10[s])	$\pm$ [%]	0,2		
<u>Solderability</u> IEC 60068-2-20 (245 $^{\pm 2}$ [ $^{\circ}C$ ] 3 $^{\pm 0,3}$ [s])	[s]	Solder bath method (min. 95[%] coverage)		
<u>Marking</u> IEC60062		Printed in clear		

## DIMENSIONS [mm]



Type	L	a
KT212-7	$25 \pm 1,0$	$3,5 \pm 1,0$
KT214-7	$38 \pm 1,0$	$3,5 \pm 1,2$
KT216-7	$50 \pm 1,5$	$3,5 \pm 1,5$

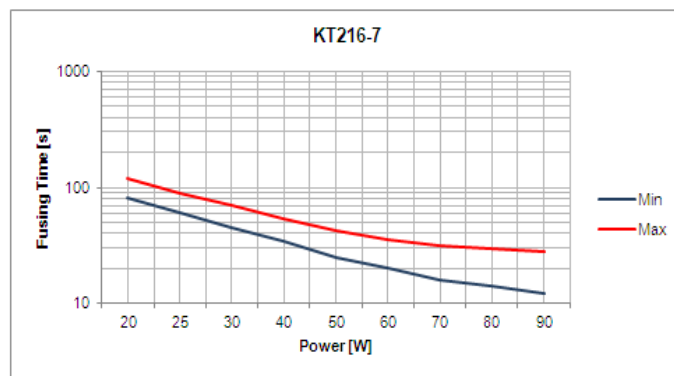
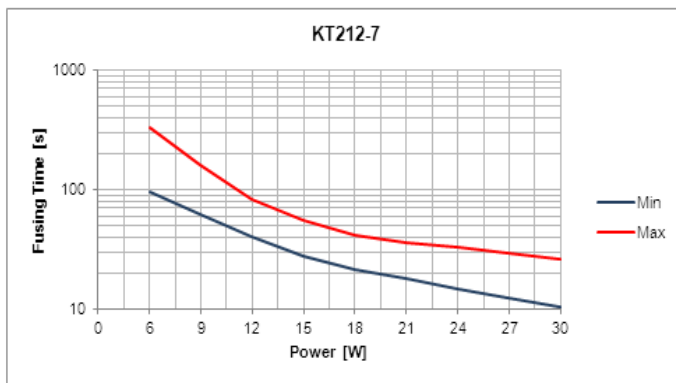
## ELECTRICAL PERFORMANCE

Resistance range [minimum]		
Type	$\pm 10$ [%]	$\pm 5$ [%]
KT212	0R075	0R15
KT214	0R11	0R33
KT216	0R15	0R51

Temperature coefficient [ppm $K^{-1}$ ]			
Type	TC +400 $\pm 50$	TC 0 $\pm 40$	TC 0 $\pm 10$
KT212	0R075...0R3	0R33...470R	510R...15K
KT214	0R11...0R68	0R75...910R	1K...33K
KT216	0R15...1R	1R1...1K3	1K5...47K

## FUSING PERFORMANCE

### Fusing time vs Power



**TEMPERATURE RISE**



**PACKAGING**

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



Type	Packaging	Pieces	Pack. Code
KT212-7	Bulk	200	B
KT214-7		200	
KT216-7		200	

**ORDERING EXAMPLE**

<b>KT212-7</b>	<b>10</b>	<b>B</b>	<b>100R</b>
<i>Type</i>	<i>Tolerance</i>	<i>Pack-Code</i>	<i>R-Value</i>