Power Wirewound Resistors
Ceramic case , Vertical



RoHS compliant

ELECTRICAL SPECIFICATIONS

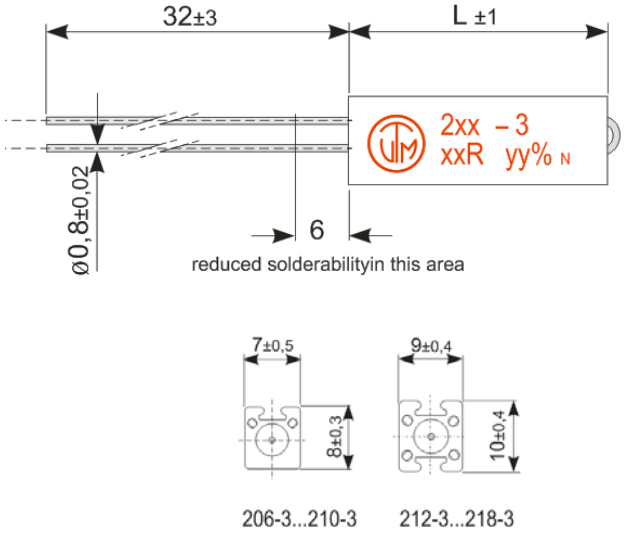
Type		KV206-3	KV208-3	KV210-3	KV212-3	KV 214-3	KV216-3	KV218-3
Nominal Power rating P_{70}	[W]	4	5	7	7	9	11	17
Resistance range	[Ω] Min	*Please check the table below						
	Max	9K1	15K	33K	15K	33K	47K	82K
E-Series		E24 (5[%]), E12 (10[%])						
Tolerances	± [%]	5, 10						
Temperature coefficient	[10^{-6}*K^{-1}]	*Depends on the value, please check the table below						
Temperature range	[°C]	-55 … +350						
Thermal resistance	[KW^{-1}]	70	56	40	40	31	25	16
Dielectric withstanding voltage IEC115-1 clause 4.7 (1[min])	[V]	2000						
Insulation resistance *IEC115-1 clause 4.6*	[MΩ]	> 10^4						
Max. working voltage	$[V]_{RMS}$	$\sqrt{P_{70} * R}$						

PERFORMANCE DATA

Derating linear		70…350 (0W)
Climatic category		55/200/21
Failure Rate *(Total, ϑ_0, max, 60[%] cont. lev.)*	[10^{-9} h^{-1}]	appr. 100 depends on value
Endurance *IEC115-1 clause 4.25* (P_{70}, @ 70[°C], 1000[h])	± [%]	3,0
Damp heat, steady state *IEC115-1clause 4.24* *(40[°C], 93[% r.h.], 56[d])*	± [%]	2,0
Climatic sequence *IEC115-1 clause4.23*	± [%]	2,0
Terminal strength	± [%]	1,0
Terminal Tensile Strength	[N]	50
Resistance to soldering heat *IEC115-1 clause 4.12* *($260^{\pm5}$[°C], $3{,}5^{\pm1}$[s])*	± [%]	± 0,2
Solderability *IEC 60068-2-20* *($245^{\pm5}$[ºC], $3^{\pm0.5}$[s])*		Solder bath method
Marking *IEC60062*		Printed in clear

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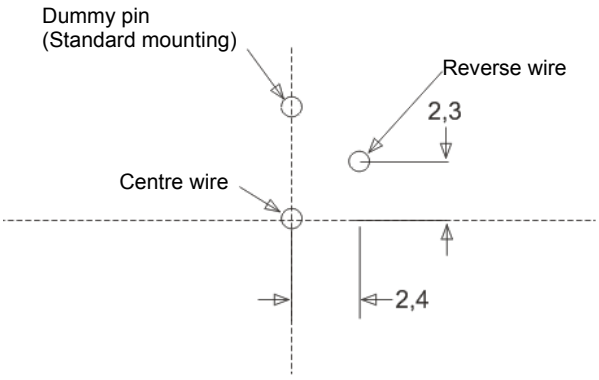
DIMENSIONS [mm]



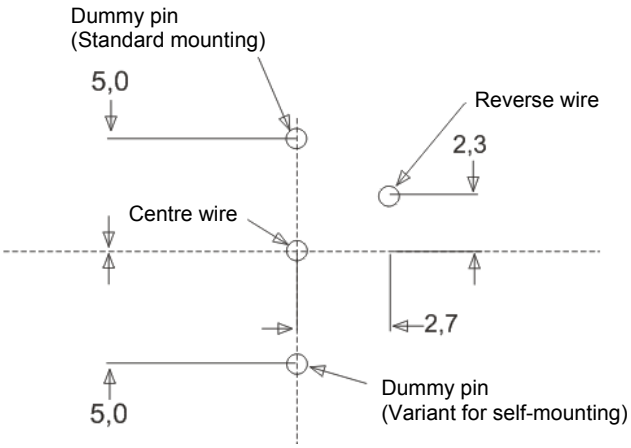
Type	L_1
KV206-3	20 ±1,0
KV208-3	25 ±1,0
KV210-3	38 ±1,0
KV212-3	25 ±1,0
KV214-3	38 ±1,0
KV216-3	50 ±1,5
KV218-3	75 ±2,0

PCB – Layout for series KV

KV206...KV210-3



KV212...KV218-3



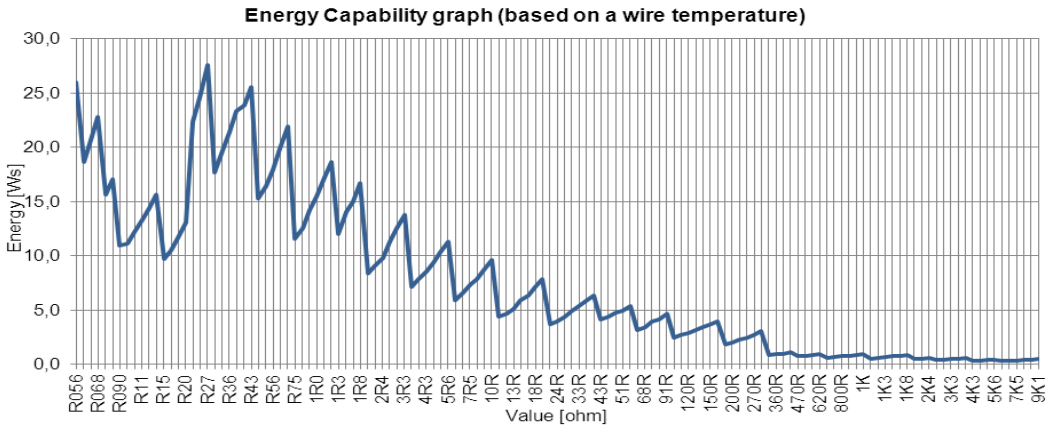
ELECTRICAL CHARACTERISTIC

Resistance range [minimum]		
Type	**±10%**	**±5%**
KV206-3	0R056	0R1
KV208-3	0R075	0R15
KV210-3	0R11	0R33
KV212-3	0R075	0R15
KV214-3	0R11	0R33
KV216-3	0R15	0R51
KV218-3	0R27	0R91

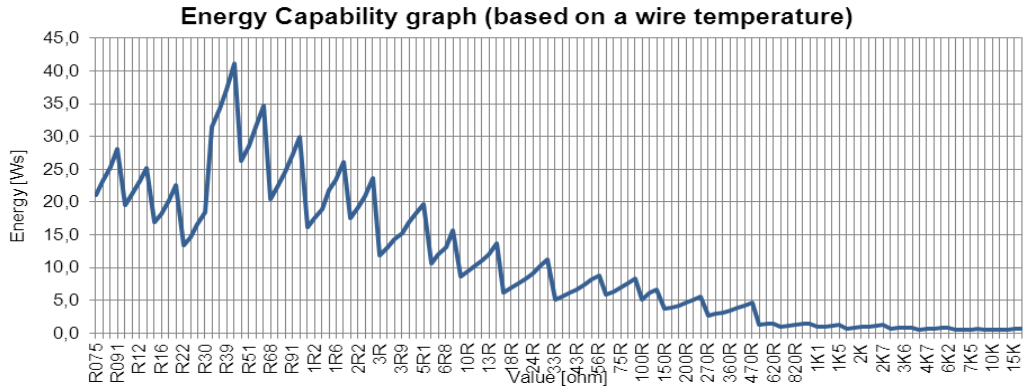
Temperature coefficient [ppm K^{-1}]			
Type	**TC +400 ±50**	**TC 0 ±40**	**TC 0 ±10**
KV206-3	0R056...0R2	0R22...300R	330R...9K1
KV208-3	0R075...0R3	0R33...470R	510R...15K
KV210-3	0R11...0R68	0R75...910R	1K...33K
KV212-3	0R075...0R3	0R33...470R	510R...15K
KV214-3	0R11...0R68	0R75...910R	1K...33K
KV216-3	0R15...1R	1R1...1K3	1K5...47K
KV218-3	0R27...1R6	1R8...2K4	2K7...82K

ELECTRICAL PERFORMANCE

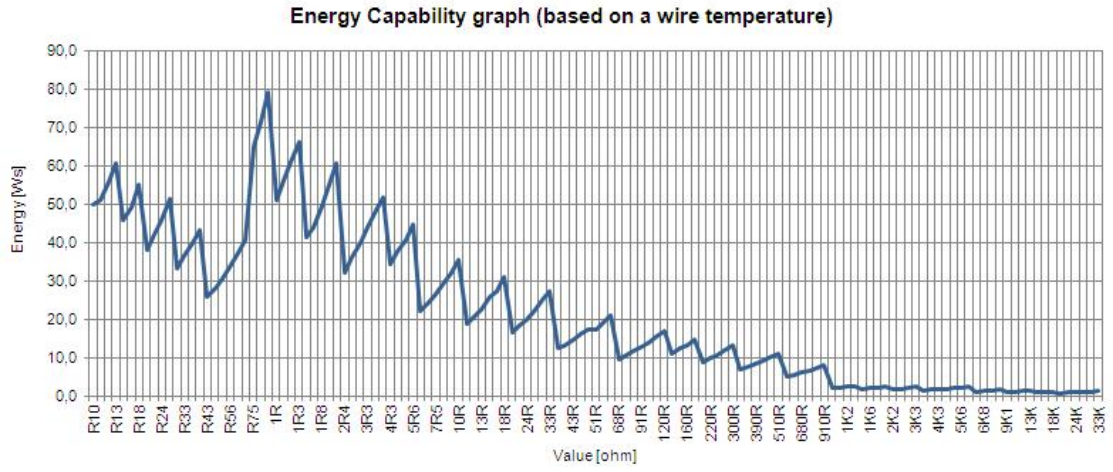
KV206-3



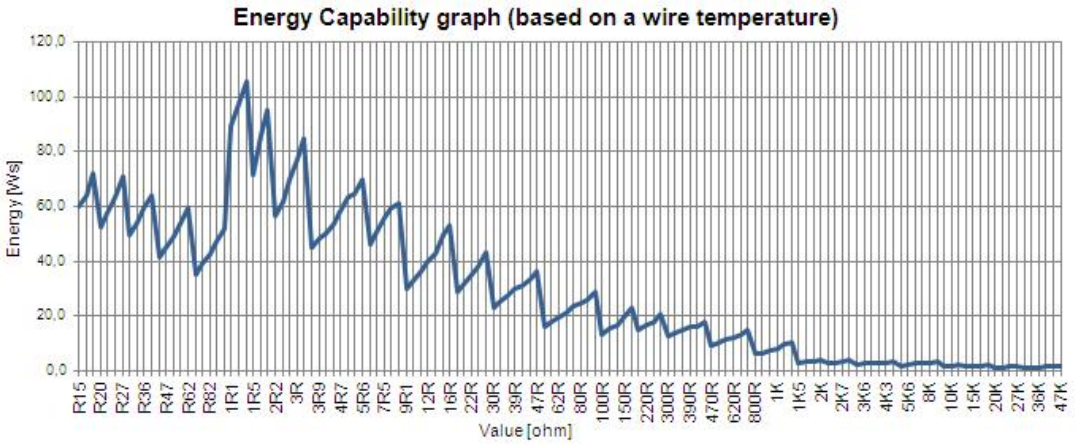
KV208-3 and KV212-3



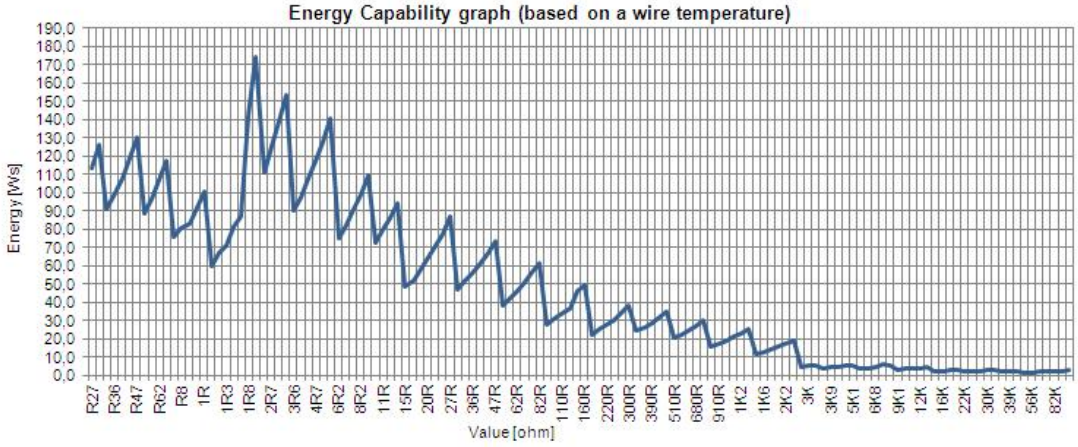
KV210-3 and KV214-3



KV216-3



KV218-3



PACKAGING

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



Type	Packaging	Pieces	Pack. Code
KV206-3	Bulk	200	B
KV208-3		200	
KV210-3		200	
KV212-3		200	
KV214-3		200	
KV216-3		200	
KV218-3		100	

ORDERING EXAMPLE

KV206-3	10	B	100R
Type	*Tolerance*	*Pack-Code*	*R-Value*

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