



KVV Series Datasheet

Power Resistors | Radial | Ceramic case
Metal Oxide Film Element

ORDERING CODE - Example

New SAP Part Nr.:

KVV	500	J	M	-	RD-	82K	Y0
Serie	* Power rating	Tol.	Pack-Code	TCR	Forming type	R Value	Special
		J = $\pm 5\%$	M = Bulk with Metal Oxide Element	- Base on spec.	RD- = Radial		

Historical VTM Part Nr.:

KVV306 - 5	5	B	82K
Type	Tol.	Pack-Code	R Value

APPLICATIONS



Power & Energy

FEATURES

Heat and flame resistant, Insulated

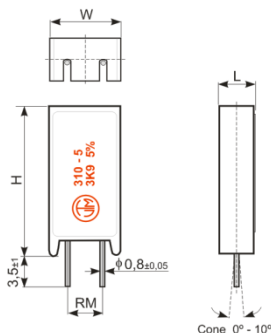
High resistance value

RoHs & REACH Compliant

ELECTRICAL SPECIFICATIONS

Type		KWV200	KWV300	KWV500	KWV700	KWV10S	KWV10A
Historical Part Number		KWV302 – 5	KWV304 – 5	KWV306 – 5	KWV308 – 5	KWV309 – 5	KWV310 – 5
Nominal Power Rating	^{*P} ₄₀ P ₇₀	[W]	2,3	3,0	5,0	7,0	10WS 10,0
Resistance Range	[Ω] Min. Max.	2,0	2,6	4,4	6,1	8,7	8,7
		39R	75R	150R	360R	300R	560R
		1M	1M	1M	1M	1M	1M
(Other values upon request)							
E-Series (preferred)		E24 (Other upon request)					
Tolerances	±[%]	J = 5% (Other upon request)					
Temperature Coefficient	±[10 ⁻⁶ K ⁻¹]	300					
Working Temperature Range	[°C]	-55 ... +275					
Thermal Resistance	[KW ⁻¹]	102	68	41	30	20	20
Insulation Resistance IEC60115-1 clause 4.6	[MΩ]	> 10 ⁴					
Max. Working Voltage	[V] _{RMS}	250	350	350	500	500	500
Dielectric Withstanding Voltage IEC60115-1 clause 4.7 (1[<i>min</i>])	[V] _{RMS}	500	700	700	1000	1000	1000

DIMENSIONS [mm]



New P/Nr. Type	Historical P/N:	H $\pm 1,5$	W $\pm 1,0$	L $\pm 1,0$	RM $\begin{smallmatrix} +2,0 \\ -1,0 \end{smallmatrix}$
KVV200	KVV302 - 5	20,0	11,0	7,0	5,0
KVV300	KVV304 - 5	25,0	12,0	8,0	5,0
KVV500	KVV306 - 5	25,0	13,0	9,0	5,0
KVV700	KVV308 - 5	39,0	13,0	9,0	5,0
KVV10S	KVV309 - 5	35,0	16,0	12,0	7,5
KVV10A	KVV310 - 5	51,0	13,0	9,0	5,0

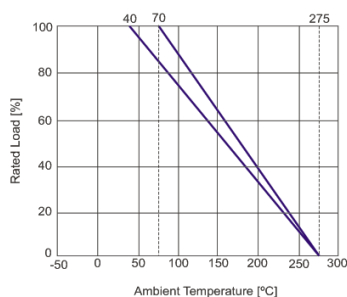
KWV Series Datasheet

PERFORMANCE DATA

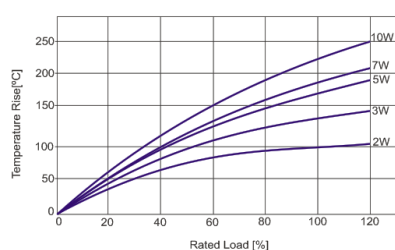
Type		KWV200	KWV300	KWV500	KWV700	KWV10S	KWV10A
Historical Part Number		KWV302 – 5	KWV304 – 5	KWV306 – 5	KWV308 – 5	KWV309 – 5	KWV310 – 5
Derating Linear	[°C]	70...275 (0W)					
Climatic Category		55/155/21					
Endurance <i>IEC60115-1 clause 4.25</i> ($P_{70\%}$ @ 70[°C], 1000[h])	±[%]	5,0					
Damp Heat, Steady State <i>IEC60115-1 clause 4.24</i> (40[°C], 93[% r.h.], 56[d])	±[%]	5,0					
Climatic Sequence <i>IEC60115-1 clause 4.23</i>	±[%]	5,0					
Resistance to Soldering Heat <i>IEC60115-1 clause 4.18</i> (260 ^{±5} [°C], 10 ^{±1} [s])	±[%]	1,0					
Terminal Strength	±[%]	1,0					
Solderability <i>IEC60068-2-20</i> (235 ^{±5} [°C] 3 ^{±0,5} [s])		Solder bath method (> 95% coverage)					
Marking <i>IEC60062</i>		Printed in clear					

DERATING CURVE & TEMPERATURE RISE

Derating Curve



Temperature Rise



PACKAGING

The standard packaging for KWV in radial type is bulk, dimensions below.



New P/Nr. Type	Historical P/N:	Pieces	Pack Code	Forming Type
KWV200	KWV302 – 5	1600	M = Bulk with Metal Oxide element	RD- = Radial
KWV300	KWV304 – 5	1000		
KWV500	KWV306 – 5	1000		
KWV700	KWV308 – 5	700		
KWV10S	KWV309 – 5	500		
KWV10A	KWV310 – 5	500		