

KWV Series Datasheet

Power Resistors | Radial | Ceramic case
Metox Element

ORDERING CODE-Example

New SAP Part Nr.:

KWV	500	J	M	-	RD-	27K	AA
Serie	Power rating	Tol.	Pack-Code	TCR	Forming type	R Value	Special
		G = ±2% J = ±5%	M = Bulk with Metox Element	- Base on spec.	RD- = Radial		AA = Standard

Historical VTM Part Nr.:

KWV306 – 303	5	B	27K
Type	Tol.	Pack-Code	R Value

APPLICATIONS

- Automotive
- Alternative Energy
- Home Appliances
- Charger
- Power Supply
- Industrial

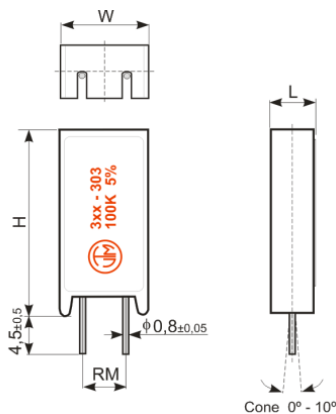
FEATURES

- Heat and flame resistance , Insulated
- High resistance value
- High Power Vs compact size
- RoHs & REACH Compliant

ELECTRICAL SPECIFICATIONS

Type		KWV200	KWV300	KWV500	KWV700	KWV10A
Historical Part Number		KWV302 – 303	KWV304 – 303	KWV306 – 303	KWV308 – 303	KWV310 – 303
Nominal Power Rating P ₇₀	[W]	2,0	3,0	5,0	7,0	10,0
Resistance Range	[Ω] Min. Max.	390R	680R	680R	1K	1K
		100K	100K	100K	100K	100K
(Other values upon request)						
E-Series (preferred)	E24 (Other upon request)					
Tolerances	±[%]	G = 2% ; J = 5% (Other upon request)				
Temperature Coefficient	±[10 ⁻⁶ K ⁻¹]	250				
Working Temperature Range	[°C]	-55 ... +235				
Thermal Resistance	[KW ⁻¹]	102	68	41	30	20
Insulation Resistance IEC60115-1 clause 4.6	[MΩ]	> 10 ⁴				
Max. Working Voltage	[V] _{RMS}	350			500	
Dielectric Withstanding Voltage IEC60115-1 clause 4.7 (1[<i>min</i>])	[V] _{RMS}	700				

DIMENSIONS [mm]



New P/Nr. Type	Historical P/N:	H ±1,0	W ±1,0	L ±1,0	RM ±0,5
KWV200	KWV302 – 303	20,5	11,0	7,0	5,0
KWV300	KWV304 – 303	25,0	12,0	8,0	5,0
KWV500	KWV306 – 303	26,0	13,0	9,0	5,0
KWV700	KWV308 – 303	39,0	13,0	9,5	5,0
KWV10A	KWV310 – 303	51,0	13,0	9,5	5,0

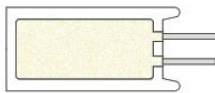
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PERFORMANCE DATA

Type		KWV200	KWV300	KWV500	KWV700	KWV10A
Historical Part Number		KWV302 – 303	KWV304 – 303	KWV306 – 303	KWV308 – 303	KWV310 – 303
Derating Linear	[°C]	70...235 (0W)				
Climatic Category		55/155/21				
Failure Rate <i>(Total, θ_{ρ}, max, 60[%] cont. lev.)</i>	[10 ⁻⁹ h ⁻¹]	appr. 100 depends on value				
Endurance <i>IEC60115-1 clause 4.25 (P₇₀, @ 70[°C], 1000[h])</i>	±[%]	5,0				
Damp Heat, Steady State <i>IEC60115-1 clause 4.24 (40[°C], 93[% r.h.], 56[d])</i>	±[%]	5,0				
Climatic Sequence <i>IEC60115-1 clause 4.23</i>	±[%]	5,0				
Resistance to Soldering Heat <i>IEC60115-1 clause 4.18 (260^{±5}[°C], 10^{±1}[s])</i>	±[%]	2,0				
Terminal Strength	±[%]	1,0				
Solderability <i>IEC60068-2-20 (245^{±5}[°C] 3^{±0,5}[s])</i>		Solder bath method (> 95% coverage)				
Marking <i>IEC60062</i>		Printed in clear				

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 – 303	250	M = Bulk with Metal Oxide element	RD- = Radial
KWV300	KWV304 – 303	204		
KWV500	KWV306 – 303	176		
KWV700	KWV308 – 303	108		
KWV10A	KWV310 – 303	120		