



KVV Series Datasheet

Power Wirewound Resistors | Radial | Ceramic case
Fiberglass core

ORDERING CODE - Example

New SAP Part Nr.:

KVV	10S	J	F	-	RD-	22R	AA
Serie	Power rating	Tol. J = ±5%	Pack-Code F = Bulk with Fiberglass Element	TCR - Base on spec.	Forming type RD- = Radial	R Value	Special AA = Standard

Historical VTM Part Nr.:

KVV309 - 3	5	B	22R
Type	Tol.	Pack-Code	R Value

APPLICATIONS

Power & Energy

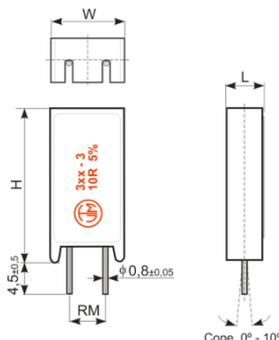
FEATURES

- Fiberglass Core , Pulse version available
- Board space saving
- Excelent power Vs size ratio
- RoHs and REACH Compliant

ELECTRICAL SPECIFICATIONS

Type		KVV200	KVV300	KVV500	KVV700	KVV10S	KVV10A
Historical Part Number		KVV302 - 3	KVV304 - 3	KVV306 - 3	KVV308 - 3	KVV309 - 3	KVV310 - 3
Nominal Power Rating P ₇₀	[W]	2,0	3,0	5,0	7,0	10WS	10,0
Resistance Range	[Ω] Min. Max.	0R1	0R1	0R1	0R1	0R1	0R1
		1K	4K7	4K7	10K	4K7	16K
		(Other values upon request)					
E-Series (preferred)		E24 (Other upon request)					
Tolerances	±[%]	J = 5% (Other upon request)					
Temperature Coefficient	±[10 ⁻⁶ K ⁻¹]	- 80 ... + 500 (depends on value)					
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}	$\sqrt{P_{70} \cdot R}$					
Dielectric Withstanding Voltage IEC60115-1 clause 4.7 (1[<i>min</i>])	[V] _{RMS}	2000					

DIMENSIONS [mm]



New P/Nr. Type	Historical P/N:	H ±1,0	W ±1,0	L ±1,0	RM ±1,0
KVV200	KVV302 - 3	20,5	11,0	7,0	5,0
KVV300	KVV304 - 3	25,0	12,0	8,0	5,0
KVV500	KVV306 - 3	26,0	13,0	9,0	5,0
KVV700	KVV308 - 3	39,0	13,0	9,5	5,0
KVV10S	KVV309 - 3	35,0	16,0	12,0	7,5
KVV10A	KVV310 - 3	51,0	13,0	9,5	5,0

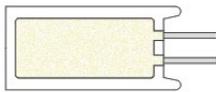
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PERFORMANCE DATA

Type		KVV200	KVV300	KVV500	KVV700	KVV10S	KVV10A
Historical Part Number		KVV302 – 3	KVV304 – 3	KVV306 – 3	KVV308 – 3	KVV309 – 3	KVV310 – 3
Derating Linear	[°C]	70...275 (0W)					
Climatic Category		55/200/21					
Failure Rate <i>(Total, ϑ_o, 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>	±[%]	3,0					
Damp Heat, Steady State <i>IEC60115-1 clause 4.24 (40[°C], 93[% r.h.], 56[d])</i>	±[%]	2,0					
Resistance to Soldering Heat <i>IEC60115-1 clause 4.18 (260^{±5}[°C], 10^{±1}[s])</i>	±[%]	2,0					
Short Time Overload <i>IEC60115-1 clause 4.13 (10 times rated power for 5 seconds)</i>	±[%]	2,0					
Terminal Strength	±[%]	0,5					
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 KVV in radial type is bulk, dimensions below.



New P/Nr. Type	Historical P/N:	SPQ	Pack Code	Forming Type
KVV200	KVV302 – 3	1600	F = Bulk with Fiberglass element	RD- = Radial
KVV300	KVV304 – 3	1000		
KVV500	KVV306 – 3	1000		
KVV700	KVV308 – 3	700		
KVV10S	KVV309 – 3	500		
KVV10A	KVV310 – 3	500		