

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.	Pack-Code	TCR	Forming type	R Value	Special
		J = ±5%	F = Bulk with Fiberglass Element	- Base on spec.	RD- = Radial		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

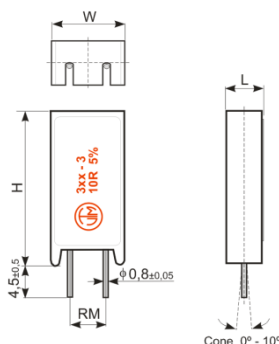
Excellent power Vs size ratio

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.	0R1	0R1	0R1	0R1	0R1	0R1
	Max.	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[min])	[V] _{RMS}	2000					

DIMENSIONS [mm]



New P/Nr. Type	Historical P/N:	H ±1,5	W ±1,0	L ±1,0	RM +2/-1
KVV200	KVV302 - 3	20,0	11,0	7,0	5,0
KVV300	KVV304 - 3	25,0	12,0	8,0	5,0
KVV500	KVV306 - 3	25,0	13,0	9,0	5,0
KVV700	KVV308 - 3	39,0	13,0	9,0	5,0
KVV10S	KVV309 - 3	35,0	16,0	12,0	7,0
KVV10A	KVV310 - 3	51,0	13,0	9,0	5,0

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PERFORMANCE DATA

Type		KWV200	KWV300	KWV500	KWV700	KWV10S	KWV10A
Historical Part Number		KWV302 – 3	KWV304 – 3	KWV306 – 3	KWV308 – 3	KWV309 – 3	KWV310 – 3
Derating Linear	[°C]	70...275 (0W)					
Climatic Category		55/200/21					
Failure Rate (Total, θ_o, max, 60[%] cont. lev.)	[10 ⁻⁹ h ⁻¹]	appr. 100 depends on value					
Endurance IEC60115-1 clause 4.25 (P_{70%} @ 70[°C], 1000[h])	±[%]	3,0					
Damp Heat, Steady State IEC60115-1 clause 4.24 (40[°C], 93[% r.h.], 56[d])	±[%]	2,0					
Resistance to Soldering Heat IEC60115-1 clause 4.18 (260^{±5}[°C], 10^{±1}[s])	±[%]	2,0					
Short Time Overload IEC60115-1 clause 4.13 (10 times rated power for 5 seconds)	±[%]	2,0					
Terminal Strength	±[%]	0,5					
Solderability IEC60068-2-20 (245^{±5}[°C] 3^{±0,5}[s])		Solder bath method (> 95% coverage)					
Marking IEC60062		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
KWV200	KWV302 – 3	1600	F = Bulk with Fiberglass element	RD- = Radial
KWV300	KWV304 – 3	1000		
KWV500	KWV306 – 3	1000		
KWV700	KWV308 – 3	700		
KWV10S	KWV309 – 3	500		
KWV10A	KWV310 – 3	500		