



KWP Series Datasheet

Power Wirewound Resistor | Radial | ceramic case

ORDERING CODE - Example

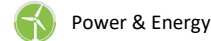
New SAP Part Nr.:

KWP	20A	J	C	-	RD-	22R	DL
Serie	* Power rating	Tol. J = ±5% K = ±10%	Pack-Code C = Bulk with ceramic core element	TCR - Base on spec.	Forming type RD = Radial	R Value	Special DL = 2 Pin Long

Historical VTM Part Nr.:

KWP339 - 0	5	B	22R
Type	Tol.	Pack-Code	R Value

APPLICATIONS



FEATURES

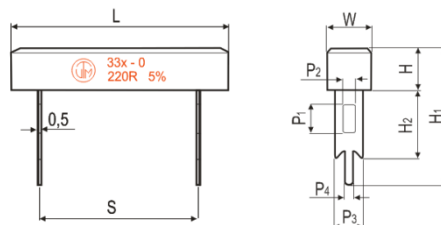
- PCB pluggable style
- Pulse version available
- RoHs and REACH Compliant

ELECTRICAL SPECIFICATIONS

Type		KWP370	KWP600	KWP800	KWP11A	KWP15A	KWP20A	
Historical Part Number		KWP330 - 0	KWP332 - 0	KWP333 - 0	KWP336 - 0	KWP337 - 0	KWP339 - 0	
Nominal Power Rating	* P ₂₅ P ₄₀	3,7 3,4	6,0 5,0	8,0 7,0	11,0 10,0	15,0 13,0	20,0 18,0	
Resistance Range	[Ω] Min. Max.	R3 130R	R36 200R	R39 270R	R56 430R	1R 560R	1R5 750R	
E-Series (preferred)		(Other values upon request)						
Tolerances	±[%]	E24 (Other upon request)						
Temperature Coefficient	±[10 ⁻⁶ K ⁻¹]	J = 5% ; K = 10%						
Working Temperature Range	[°C]	300						
Thermal Resistance	[KW ⁻¹]	-55 ... +155						
Insulation Resistance IEC60115-1 clause 4.6	[MΩ]	41	23	16	12	9	5	
Max. Working Voltage	[V] _{RMS}				> 10 ⁴			
Dielectric Withstanding Voltage IEC60115-1 clause 4.7 (1[min])	[V] _{RMS}	250	350	500				
		500	700	1000				

DIMENSIONS [mm]

Below or over the "S" dimension on request



New P/Nr. Type	Historical P/N:	L	H	W	S	H ₁	H ₂	P ₁	P ₂	P ₃	P ₄
KWP370	KWP330 - 0	24,0±1,5	9,0±1,0	9,0±1,0	10,0±1,0	24,0±1,0	9,5±1,0	4,0±0,2	2,0±0,2	5,0±0,2	1,4±0,1
KWP600	KWP332 - 0	28,0±1,5	10,0±1,0	10,0±1,0	15,0±1,5	25,0±1,5	10,0±1,0	4,0±0,2	2,0±0,2	5,0±0,2	1,5±0,2
KWP800	KWP333 - 0	35,0±1,5	10,0±1,0	10,0±1,0	22,5±1,5	25,0±1,5	10,0±1,0	4,0±0,2	2,0±0,2	5,0±0,2	1,5±0,2
KWP11A	KWP336 - 0	48,0±1,5	9,5±1,0	10,0±1,0	32,0±1,5	25,0±1,5	10,5±1,0	4,0±0,2	2,0±0,2	5,0±0,2	1,5±0,2
KWP15A	KWP337 - 0	48,0±1,5	12,5±1,0	13,0±1,0	32,0±1,5	35,0±1,5	15,0±1,5	7,0±0,2	4,0±0,2	10,0±0,2	3,0±0,2
KWP20A	KWP339 - 0	63,0±1,5	12,5±1,0	12,5±1,0	42,5±1,5	35,0±1,5	15,0±1,5	7,0±0,2	4,0±0,2	10,0±0,2	3,0±0,2

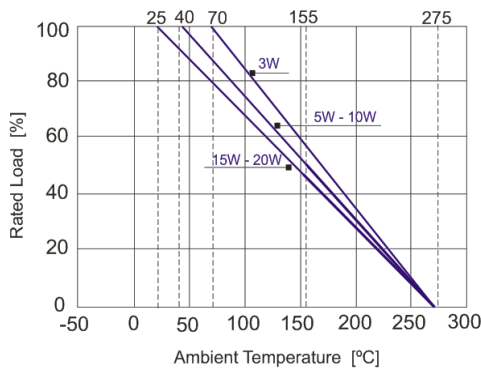
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PERFORMANCE DATA

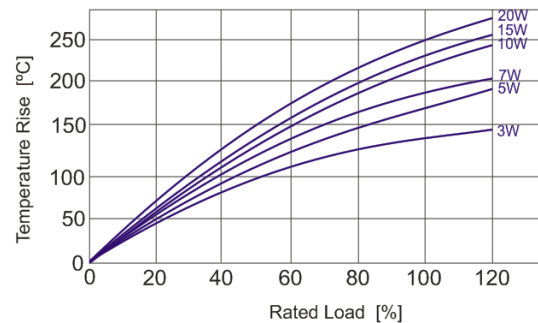
Type		KWP370	KWP600	KWP800	KWP11A	KWP15A	KWP20A
Historical Part Number		KWP330 - 0	KWP332 - 0	KWP333 - 0	KWP336 - 0	KWP337 - 0	KWP339 - 0
Derating Linear	[°C]	40...155 (0W)					
Climatic Category		55/155/21					
Failure Rate <i>(Total, ϑ_0, max, 60[%] cont. lev.)</i>	[10^{-9} h^{-1}]	appr. 100 depends on value					
Endurance <i>IEC60115-1 clause 4.25 (P_{70} @ 70[°C], 1000[h])</i>	±[%]	5					
Damp Heat, Steady State <i>IEC60115-1 clause 4.24 (40[°C], 93[% r.h.], 56[d])</i>	±[%]	5					
Resistance to Soldering Heat <i>IEC60115-1 clause 4.18 (260^{±5}[°C], 10^{±1}[s])</i>	±[%]	1					
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					

DERATING CURVE & TEMPERATURE RISE

Derating Curve

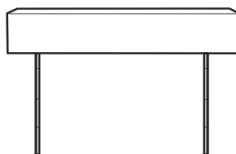


Temperature Rise



PACKAGING

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



New P/Nr. Type	Historical P/N:	Pieces	Pack Code	Forming Type
KWP370	KWP330 - 0	150	C = Bulk with ceramic core element	RD- = Radial
KWP600	KWP332 - 0	150		
KWP800	KWP333 - 0	150		
KWP11A	KWP336 - 0	150		
KWP15A	KWP337 - 0	50		
KWP20A	KWP339 - 0	50		