

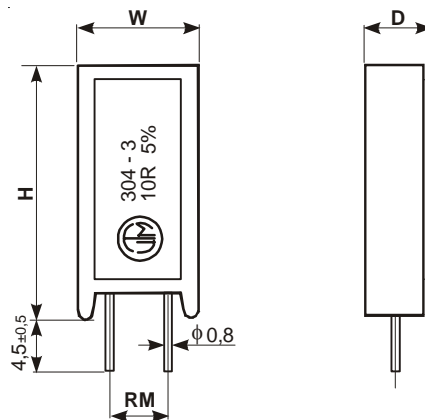
Power Wirewound Resistors  
ceramic case, vertical



### Specifications

Type		KVV302-3	KVV304-3	KVV306-3	KVV308-3	KVV309-3	KVV310-3
Power rating $P_{70}$	W	2	3	5	7	10	10
Resistance range	$\Omega$	0R1...1K	0R1...4K7	0R1...4K7	0R1...10K	0R1...4K7	0R1...16K
E-Series		E 24					
Tolerances	%	5					
Temperature coefficient	$10^{-6} \cdot K^{-1}$	- 80 ... + 500 (depends on value)					
max. cont. work. voltage	$V_{RMS}$	$\sqrt{P_{70} \cdot R}$ for all styles					
Insulation voltage (1min.)	$V_{RMS}$	2000					
Insulation resistance	$\Omega$	$> 10^4 M$					
Derating linear	$^{\circ}C$	70 ... 275 (0W)					
Climatic category		55/200/21					
Temperature range	$^{\circ}C$	- 55 ... 275					
Thermal resistance	$KW^{-1}$	100	68	40	30	20	20
Failure rate (Total, $J_{\sigma}$ , max., 60% conf. lev.)	$10^{-9} \cdot h^{-1}$	appr. 100, depends on value					
Endurance ( $P_{70}$ , 70 $^{\circ}C$ , 1000)	$\left[\frac{\Delta R}{R}\right]$ %	3,0					
Damp heat, steady state (40 $^{\circ}C$ , 93% r.h., 56d)	$\left[\frac{\Delta R}{R}\right]$ %	2,0					
Climatic sequence	$\left[\frac{\Delta R}{R}\right]$ %	2,0					
Terminal strength	$\left[\frac{\Delta R}{R}\right]$ %	2,0					
Resistance to soldering heat (260 $^{\circ}C$ , 10s)	$\left[\frac{\Delta R}{R}\right]$ %	0,5					
Solderability	s	2,5 Flowtime, solderglobule test, IEC 60068-2-20T					
Marking		Printed in clear					

Dimensions in mm:



Type	H $\pm 1$	W $\pm 1$	D $\pm 1$	RM $\pm 0,5$
KWV302-3	20,5	11	7	5
KWV304-3	25	12	8	5
KWV306-3	26	13	9	5
KWV308-3	39	13	9,5	5
KWV309-3	35	16	12	7,5
KWV310-3	51	13	9,5	5

Packaging:

Type	Packaging	Pieces	Pack.-Code
KWV302-3	bulk	250	B
KWV304-3	bulk	204	B
KWV306-3	bulk	176	B
KWV308-3	bulk	108	B
KWV309-3	bulk	108	B
KWV310-3	bulk	120	B

Ordering example: KWV304-3      5      B      100R  
 Type      Tolerance      Pack.-Code      R-Value

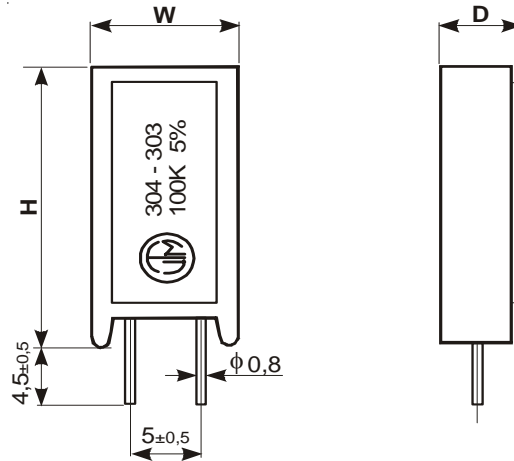
Revision 200905

Power Resistors, Metox Element  
ceramic case, vertical

## Specifications

Type		KVV302-303	KVV304-303	KVV306-303	KVV308-303	KVV310-303
Power rating $P_{70}$ W	W	2	3	5	7	10
Resistance range	$\Omega$	390R...100K	680R...100K	680R...100K	1K ...100K	1K ...100K
E-Series		E 24	E 24	E 24	E 24	E 24
Tolerances	%	$\pm 5$	$\pm 5$	$\pm 5$	$\pm 5$	$\pm 5$
Temperature coefficient	$10^{-6} * K^{-1}$			$\pm 250$		
max. cont. work. voltage	$V_{RMS}$	350	350	350	500	500
Insulation voltage (1min.)	$V_{RMS}$			700		
Insulation resistance	$\Omega$			> 1 GM		
Derating linear	$^{\circ}C$			70 ... 235 (0W)		
Climatic category				55/155/21		
Temperature range	$^{\circ}C$			- 55 ... 235		
Thermal resistance	$KW^{-1}$	100	68	40	30	20
Failure rate (Total, $J_o$ , max., 60% conf. lev.)	$10^{-9} * h^{-1}$			appr. 100, depends on value		
Endurance ( $P_{70}$ , 70 $^{\circ}C$ , 1000)	$\left[\frac{\Delta R}{R}\right] \%$			$\pm 5,0$		
Damp heat, steady state (40 $^{\circ}C$ , 93% r.h., 56d)	$\left[\frac{\Delta R}{R}\right] \%$			$\pm 5,0$		
Climatic sequence	$\left[\frac{\Delta R}{R}\right] \%$			$\pm 5,0$		
Terminal strength	$\left[\frac{\Delta R}{R}\right] \%$			$\pm 1,0$		
Resistance to soldering heat (260 $^{\circ}C$ , 10s)	$\left[\frac{\Delta R}{R}\right] \%$			$\pm 1,0$		
Solderability	s	2,5 Flowtime, solderglobule test, IEC 60068-2-20T				
Marking		Printed in clear				

Dimensions in mm:



Type	H $\pm 1$	W $\pm 1$	D $\pm 1$
KWV302-303	20,5	11	7
KWV304-303	25	12	8
KWV306-303	26	13	9
KWV308-303	39	13	9,5
KWV310-303	51	13	9,5

Packaging:

Type	Packaging	Pieces	Pack.-Code
KWV302-303	bulk	250	B
KWV304-303	bulk	204	B
KWV306-303	bulk	176	B
KWV308-303	bulk	108	B
KWV310-303	bulk	120	B

Ordering example: KWV304-303      5      B      100K  
 Type      Tolerance      Pack.-Code      R-Value

Revision 200905

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