

Power Wirewound Ceramic Resistors
vertical

Specification

Type		206-3	208-3	210-3	212-3	214-3	216-3	218-3
Power rating P ₇₀	W	4	5	7	7	9	11	17
Resistance range		see table Page 2						
E-series		E 24 (5%), E 12 (10%)						
Tolerance	%	± 5, ± 10						
Temperature coefficient	10 ⁻⁶ *K ⁻¹	depends on value see table Page 3						
max. cont. working voltage	V _{RMS}	$\sqrt{P_{70} \cdot R}$ for all Styles						
Insulation voltage (1min.)	V _{RMS}	2000						
Insulation resistance	MΩ	> 10 ⁴						
Derating	°C	linear 70 ... 350 (0W)						
Climatic category		55/200/21						
Temperature range	°C	- 55 ... 350						
Thermal resistance	KW ⁻¹	65	50	40	40	30	25	15
Failure rate (Total, ϑ ₀ max., 60% conf. lev.)	10 ⁻⁹ *h ⁻¹	appr. 100, depends on value						
Endurance (P ₇₀ , @70°C, 1000h, interm.)	$\left[\frac{\Delta R}{R} \right]$ %	± 3,0 average						
Damp heat, steady state (40°C, 93% r. h., 56d)	$\left[\frac{\Delta R}{R} \right]$ %	± 2,0						
Climatic sequence	$\left[\frac{\Delta R}{R} \right]$ %	± 2,0						
Resistance to soldering heat (260°C, 10s)	$\left[\frac{\Delta R}{R} \right]$ %	± 0,2 typ.						
Terminal strength	$\left[\frac{\Delta R}{R} \right]$ %	± 1,0						
Terminal tensile strength	N	50						
Solderability	s	2,5 Flowtime; solderglobule test IEC 60068-2-20-T						
Standards		CECC 40202-002 and -006 applicable DIN 45921 T 202						
Marking		Printed in clear						

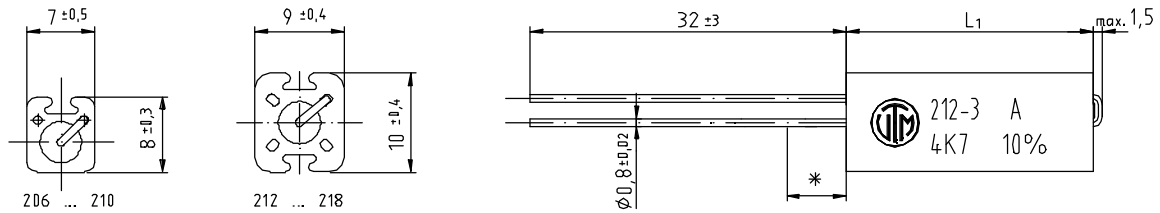
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Tel: 852-26900182 Fax: 852-26900213
E-mail: sales@artland-tech.com
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Series KV



Power Wirewound Ceramic Resistors vertical

Dimensions in mm:



* 6mm, reduced solderability in this area

Type	Resistance range			L ₁
	10%	Min. 5%	Max.	
206-3	R056	R10	9K1	20 ±1,0
208-3	R075	R15	15K	25 ±1,0
210-3	R11	R33	33K	38 ±1,0
212-3	R075	R15	15K	25 ±1,0
214-3	R11	R33	33K	38 ±1,0
216-3	R15	R51	47K	50 ±1,5
218-3	R27	R91	82K	75 ±2,0

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Temperature coefficient:

Type	TC +400 \pm 50 ppm K ⁻¹	TC +0 \pm 40 ppm K ⁻¹	TC +0 \pm 10 ppm K ⁻¹
206	R056 ... R20	R22 ... 300R	330R ... 9K1
208	R075 ... R30	R33 ... 470R	510R ... 15K
210	R11 ... R68	R75 ... 910R	1K0 ... 33K
212	R075 ... R30	R33 ... 470R	510R ... 15K
214	R11 ... R68	R75 ... 910R	1K0 ... 33K
216	R15 ... 1R0	1R1 ... 1K3	1K5 ... 47K
218	R27 ... 1R6	1R8 ... 2K4	2K7 ... 82K

Packaging:

Type	Packaging	Pieces	Pack.-Code
206-3	bulk	200	AF
208-3	bulk	200	AF
210-3	bulk	200	AF
212-3	bulk	200	BY
214-3	bulk	200	AL
216-3	bulk	200	BW
218-3	bulk	100	AL

Ordering example: 206-3 1R0 5% AF
 Type Value Tolerance Pack.-Code

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