

## Axial Cemented Wirewound Resistors



### FEATURES

- All welded construction
- Non flammable cement coating
- Ceramic core
- Various kinds of lead forming available
- Lead (Pb)-free



### STANDARD ELECTRICAL SPECIFICATIONS

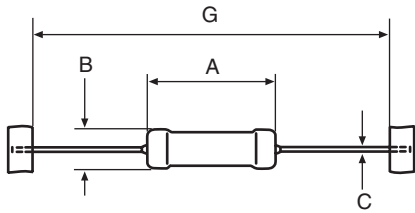
MODEL	POWER RATING P <sub>40 °C</sub> W	TOLERANCE ± %	RESISTANCE RANGE E12/E24 <sup>1)</sup>	
			Ω	
			WM 50 (Class 1) TCR -10...-80 ppm/K	WM 110 (Class 3) TCR 100...180 ppm/K
Z301	1	10	R30 - 100R	R68 - 2K0
		5	R30 - 100R	R68 - 2K0
		2	-	-
		1	-	-
ZDA0411	2	10	R47 - 560R	1R5 - 4K3
		5	R47 - 560R	1R5 - 4K3
		2	on request	-
		1	on request	-
Z302	3	10	R10 - 510R	1R8 - 3K3
		5	R10 - 510R	24R - 3K3
		2	R22 - 510R	-
		1	1R0 - 510R	-
Z303	4	10	R10 - 1K0	1R8 - 3K9
		5	R10 - 1K0	12R - 3K9
		2	R10 - 1K0	-
		1	1R0 - 1K0	-
Z305	6	10	R10 - 2K4	3R9 - 10K
		5	R10 - 2K4	10R - 10K
		2	1R0 - 2K4	-
		1	1R0 - 2K4	-
Z306	8	10	R10 - 4K7	6R8 - 16K
		5	R10 - 4K7	6R8 - 16K
		2	1R0 - 4K7	-
		1	2R2 - 4K7	-
Z307	10	10	R20 - 8K2	12R - 30K
		5	R20 - 8K2	12R - 30K
		2	1R0 - 8K2	-
		1	3R3 - 8K2	-

<sup>1)</sup> Lower TCR or other power range on request

### ORDERING INFORMATION

<b>Z305</b>	<b>3</b>	<b>100R</b>	<b>± 5 %</b>	<b>AB</b>
MODEL	CLASS	RESISTANCE VALUE	TOLERANCE	PACKAGING
		Ω	± %	For Packaging
				See appropriate catalog or web page.

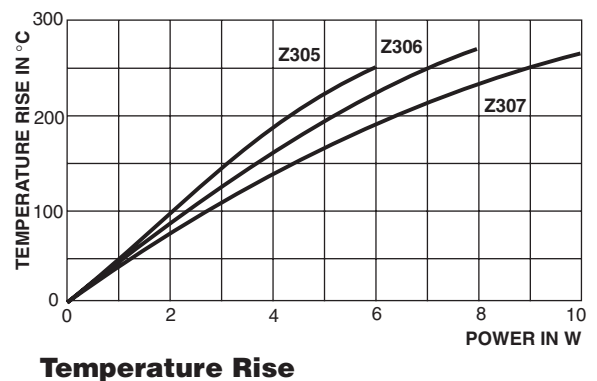
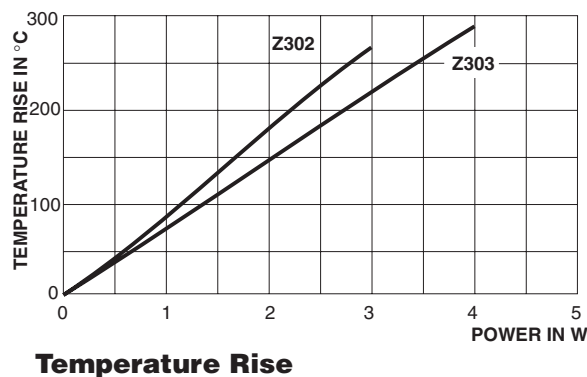
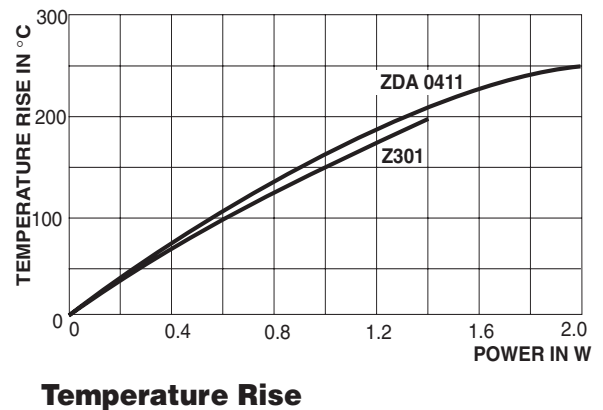
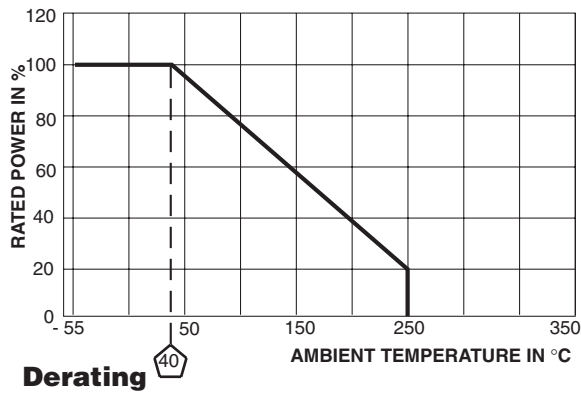
**DIMENSIONS**



For packaging dimensions see appropriate catalog or web page.

MODEL	DIMENSIONS in millimeters [inches]				
	A <sub>max</sub>	B <sub>max</sub>	C <sub>max</sub>	G	Weight (g)
Z301	8.5 [0.355]	3 [0.118]	0.7 [0.7]	53 ± 1 [2.087 ± 0.039]	0.5
ZDA0411	11 [0.433]	4 [0.157]	0.7 [0.7]	53 ± 1 [2.087 ± 0.039]	0.8
Z302	13 [0.512]	4.8 [0.189]	0.8 [0.8]	53 ± 1 [2.087 ± 0.039]	1.1
Z303	15.8 [0.622]	5.5 [0.217]	0.8 [0.8]	53 ± 1 [2.087 ± 0.039]	1.4
Z305	22.3 [0.878]	8.7 [0.343]	0.8 [0.8]	83 ± 1 [3.268 ± 0.039]	3.7
Z306	32.3 [1.272]	8.7 [0.343]	0.8 [0.8]	83 ± 1 [3.268 ± 0.039]	5
Z307	49.8 [1.961]	9 [0.354]	0.8 [0.8]	120 ± 2 [4.724 ± 0.079]	7

PERFORMANCE	
TEST	TEST RESULTS
Damp Heat, Steady State 56 days	± 3 % ΔR
Climatic Sequence	± 3 % ΔR
Load Life 5000 h	± 3 % ΔR
Short Time Overload, 5 x rated power x 5 sec	± 1 % ΔR
Vibration	± 1 % ΔR
Shock	± 1 % ΔR
Resistance to Soldering Heat	± 1 % ΔR





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