

Axial Vitreous Wirewound Resistors



FEATURES

- Complete welded construction
- Vitreous coating
- Enhanced humidity protection
- TCR 100 ... 180 ppm/K
- Pure tin plating provides compatibility with lead (Pb)-free and lead containing soldering processes
- Compliant to RoHS directive 2002/95/EC



RoHS
COMPLIANT
GREEN
(S-2009)**

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	POWER RATING $P_{40^\circ\text{C}}$	LIMITING VOLTAGE	RESISTANCE RANGE (1)	TOLERANCE
G202	4 W	200 V	0.10 Ω to 10 k Ω 0.36 Ω to 10 k Ω	$\pm 10, \pm 5 \%$ $\pm 2 \%$
G204	7 W	350 V	0.10 Ω to 39 k Ω	$\pm 10, \pm 5 \%, \pm 2 \%$
G206	13 W	500 V	0.15 Ω to 68 k Ω	$\pm 10, \pm 5 \%, \pm 2 \%$
G207	17 W	650 V	0.20 Ω to 120 k Ω	$\pm 10, \pm 5 \%, \pm 2 \%$

Note

(1) Resistance value to be selected for $\pm 10 \%$ tolerance from E12 and for $\pm 5 \%$ from E24

PART NUMBER AND PRODUCT DESCRIPTION

Part Number: G24071933902J4B000

G 2 4 0 7 1 9 3 3 9 0 2 J 4 B 0 0 0

MODEL	TCR/MATERIAL	VALUE	TOLERANCE CODE	PACKAGING CODE	SPECIAL
G220414 = G202 G240719 = G204 G260933 = G206 G270947 = G207	3 = Class 3 WM 110 100 ... 180 ppm/K	3 digit value 1 digit multiplier 7 = $\times 10^{-3}$ 8 = $\times 10^{-2}$ 9 = $\times 10^{-1}$ 0 = $\times 10^0$ 1 = $\times 10^1$ 2 = $\times 10^2$ 3 = $\times 10^3$	F = $\pm 1.0 \%$ G = $\pm 2.0 \%$ J = $\pm 5.0 \%$ K = $\pm 10.0 \%$	(See Packaging Table)	The 5 digit BV number will be encoded using a 36 character code. This code contains numbers 0...9 and letters A...Z (36 characters total) and allows to encode at least 46 655 five digit BV numbers. 000 = Standard

Product Description: G204 39K 5% AB G73

G204	39K	5%	AB G73
MODEL (2)	VALUE (2)	TOLERANCE CODE (2)	PACKAGING DESCRIPTION (3)

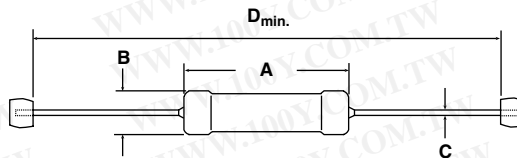
Notes

(2) See "Part Number" above

(3) See "Packaging Table"

** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

PACKAGING TABLE										
MODEL	TAPE/LEAD LENGTH (mm)	AMMO PACK			REEL			LOOSE		
		PCS	PACKAGING CODE	PACKAGING DESCRIPTION	PCS	PACKAGING CODE	PACKAGING DESCRIPTION	PCS	PACKAGING CODE	PACKAGING DESCRIPTION
G202	53	500	2C	AC G53	1000	D1	R1 G53			
	73	500	4C	AC G73	1000	F1	R1 G73			
G204	73	250	4B	AB G73	500	FC	RC G73			
	88	250	7B	AB G88	500	IC	RC G88			
		250	8B	AB G88 CL						
	98									
						200	LJ	LJ		
G206	107							100	LA	LA
G207	120							100	LA	LA

DIMENSIONS


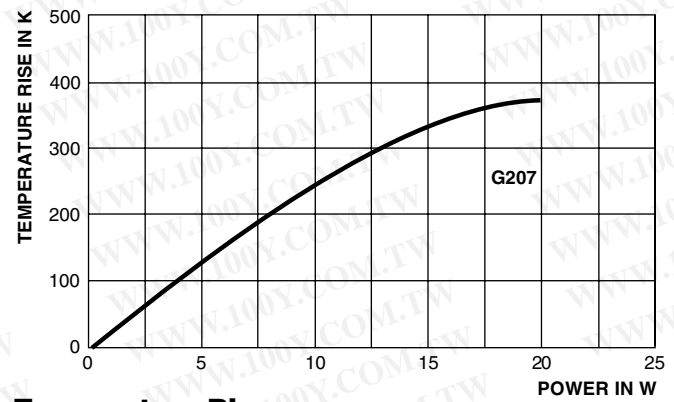
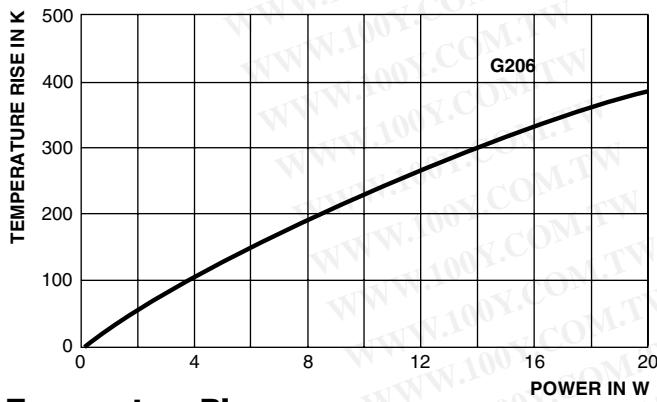
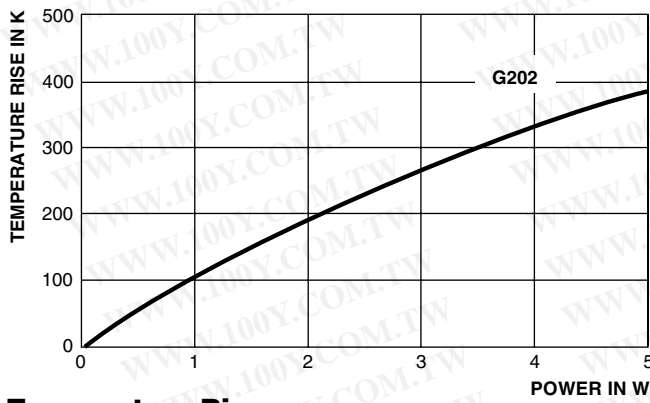
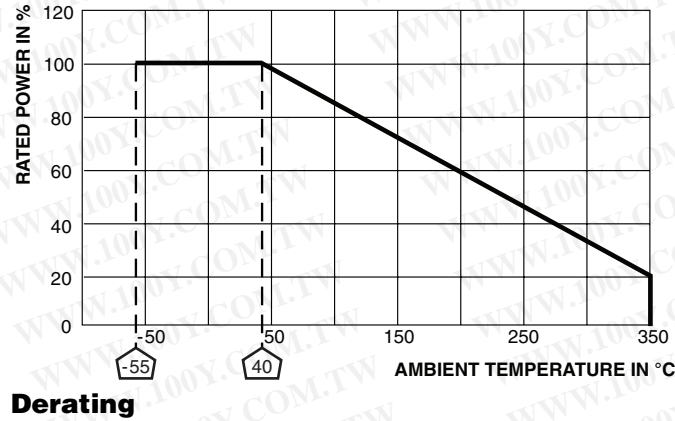
For packaging dimensions see separate packaging dimensions page.

MODEL	DIMENSIONS in millimeters [inches]				
	A _{max.}	B _{max.} (1)	C (2)	D _{min.}	Mass (g)
G 202	13 [0.512]	5.7 [0.224]	0.8 [0.031]	53 ± 1 [2.087 ± 0.039]	1
G 204	19.3 [0.760]	8.5 [0.335]	0.8 [0.031]	73 ± 1 [2.874 ± 0.039]	2.2
G 206	32.3 [1.272]	9.8 [0.386]	0.8 [0.031]	107 ± 2 [4.213 ± 0.079]	6.5
G 207	49.3 [1.941]	10.5 [0.413]	0.8 [0.031]	120 ± 2 [4.724 ± 0.079]	10

Notes

(1) The body diameter should be increased by 1 mm [0.039"] for ohmic values ≤ 10 Ω

(2) C according to IEC 60301





PERFORMANCE	
TEST	TEST RESULTS
Damp Heat, Steady State (40 ± 2) °C, 56 Days, (93 ± 3) % RH	± 5 % ΔR
Climatic Sequence IEC 60115-1 4.23	± 5 % ΔR
Load Life P ₄₀ , 40 °C, 1000 h	± 5 % ΔR
Short Time Overload 5 x Rated Power x 5 s	± 1 % ΔR
Vibration 6 h, 10 Hz to 2000 Hz, 1.5 mm or 196 m/s ²	± 1 % ΔR
Shock IEC 60068-2-27	± 1 % ΔR
Resistance to Soldering Heat (260 ± 5) °C, (10 ± 1) s	± 1 % ΔR



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