

## 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
- Compatible with "Restriction of the use of Hazardous Substances" (RoHS) directive 2002/95/EC (issue 2004)



| STANDARD ELECTRICAL SPECIFICATIONS |                  |                   |   |                             |  |                       |
|------------------------------------|------------------|-------------------|---|-----------------------------|--|-----------------------|
| GLOBAL MODEL                       | HISTORICAL MODEL | APPROVED          | POWER RATING<br>$P_{40^\circ\text{C}}$<br>W | RESISTANCE RANGE<br>E12/E24 |  | LIMITING VOLTAGE<br>V |
|                                    |                  | CECC<br>40201-801 |   | TOL.<br>± %                 | Ω  |                       |
| G220414                            | G202             | FDG               | 4   | 10<br>5<br>2<br>1           | R10 - 10K<br>R10 - 10K<br>R36 - 10K <sup>(1)</sup><br>on request | 200                   |
| G240719                            | G204             | FDK               | 7   | 10<br>5<br>2<br>1           | R10 - 39K<br>R10 - 39K<br>R10 - 39K<br>on request                | 350                   |
| G260933                            | G206             | FDP               | 13  | 10<br>5<br>2<br>1           | R15 - 68K<br>R15 - 68K<br>R15 - 68K<br>on request                | 500                   |
| G270947                            | G207             |                   | 17  | 10<br>5<br>2<br>1           | R20 - 120K<br>R20 - 120K<br>R20 - 120K<br>on request             | 650                   |

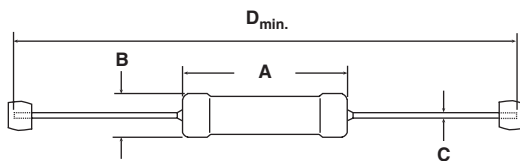
**Note**

<sup>(1)</sup> R10 - R36 on request

| GLOBAL PART NUMBER INFORMATION  |   |   |  |                                    |  |   |
|---|---|---|--|------------------------------------|--|---|
| New Global Part Numbering: G24071933902J4B000 (preferred part number format)      |   |   |  |                                    |  |   |
| G   | 2   | 4   | 0  | 7                                  | 1  | 9 |
| 3   | 3   | 9   | 0  | 2                                  | J  | 4 |
| B   | 0   | 0   | 0  |                                    |  |   |
| MODEL<br>(See Standard Electrical Specifications table)                           | TCR/MATERIAL<br>3 = Class 3<br>WM110<br>100...180 ppm/K | VALUE<br>3 digit value<br>1 digit multiplier<br>7 = *10 <sup>-3</sup><br>8 = *10 <sup>-2</sup><br>9 = *10 <sup>-1</sup><br>0 = *10 <sup>0</sup><br>1 = *10 <sup>1</sup><br>2 = *10 <sup>2</sup><br>3 = *10 <sup>3</sup> | TOLERANCE<br>F = ± 1.0 %<br>G = ± 2.0 %<br>J = ± 5.0 %<br>K = ± 10.0 % | PACKAGING<br>(See Packaging table) | SPECIAL<br>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.<br>000 = Standard |   |
| Historical Part Number Example: G204 39K 5% AB G73 (will continue to be accepted) |   |   |  |                                    |  |   |
| G204  | 39K   | 5 %   | AB G73   |                                    |  |   |
| HISTORICAL MODEL  | VALUE   | TOLERANCE   | PACKAGING  |                                    |  |   |

| PACKAGING TABLE |                 |                                      |            |
|-----------------|-----------------|--------------------------------------|------------|
| SAP             | DRALORIC LEGACY | DESCRIPTION                          | TYPE       |
| 2C              | AC G53          | Ammo pack tape 53 mm, 500 pieces     | G202       |
| 4B              | AB G73          | Ammo pack tape 73 mm, 250 pieces     | G204       |
| 4C              | AC G73          | Ammo pack tape 73 mm, 500 pieces     | G202       |
| 7B              | AB G88          | Ammo pack tape 88 mm, 250 pieces     | G204       |
| 8B              | AB G88 CL       | Ammo pack tape 88 mm, CL, 250 pieces | G204       |
| D1              | R1 G53          | Reel pack tape 53 mm, 1000 pieces    | G202       |
| F1              | R1 G73          | Reel pack tape 73 mm, 1000 pieces    | G202       |
| FC              | RC G73          | Reel pack tape 73 mm, 500 pieces     | G204       |
| IC              | RC G88          | Reel pack tape 88 mm, 500 pieces     | G204       |
| LA              | LA              | loose pack, 100 pcs                  | G206, G207 |
| LD              | -               | loose pack, 50 pieces                | G204       |
| LJ              | -               | loose pack, 200 pieces               | G204       |
| LL              | -               | loose pack, 400 pieces               | -          |

**DIMENSIONS**



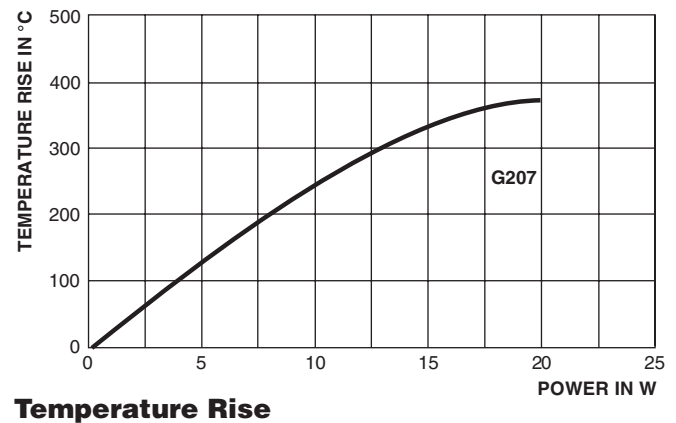
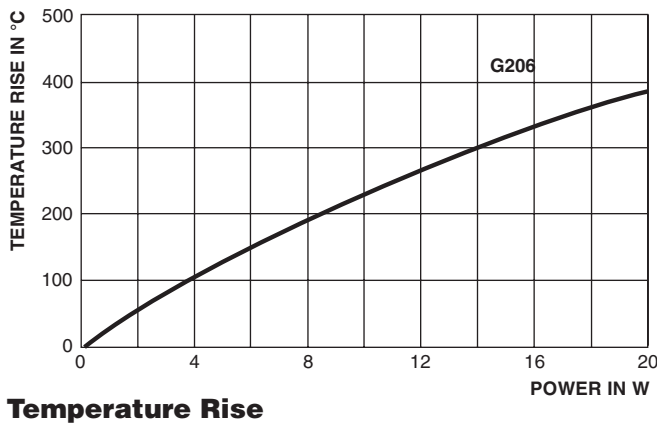
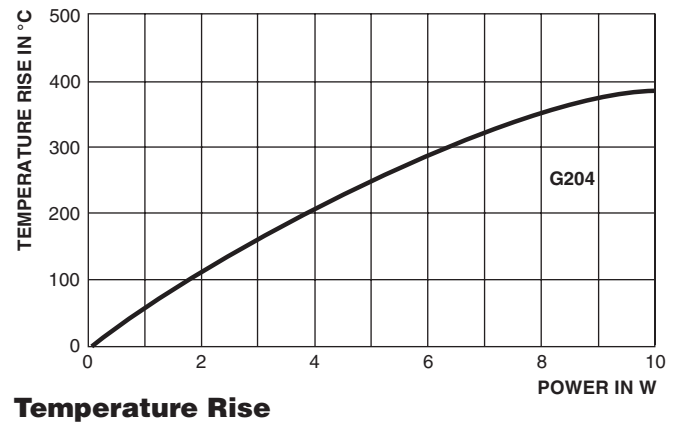
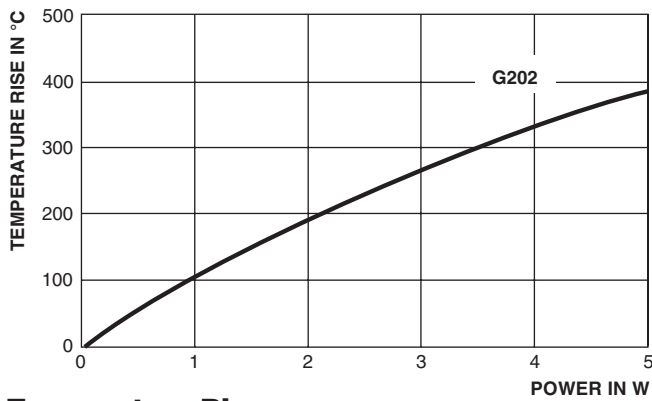
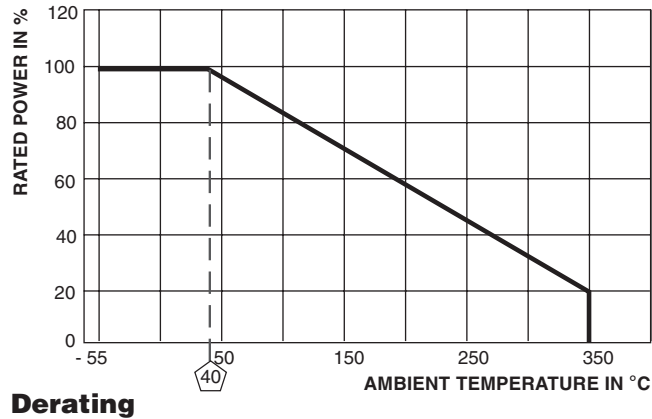
For packaging dimensions see separate packaging dimensions page.

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

**Note**

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

<sup>(2)</sup> C according to IEC60301





| <b>PERFORMANCE</b>           |                     |
|------------------------------|---------------------|
| <b>TEST</b>                  | <b>TEST RESULTS</b> |
| Damp Heat, Steady State      | $\pm 5 \% \Delta R$ |
| Climatic Sequence            | $\pm 5 \% \Delta R$ |
| Load Life                    | $\pm 5 \% \Delta R$ |
| Short Time Overload          | $\pm 1 \% \Delta R$ |
| Vibration                    | $\pm 1 \% \Delta R$ |
| Shock                        | $\pm 1 \% \Delta R$ |
| Resistance to Soldering Heat | $\pm 1 \% \Delta R$ |



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