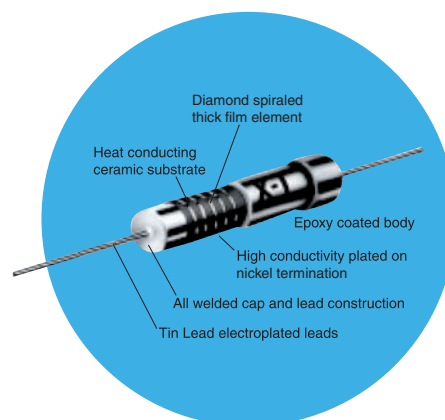


# Precision High-Voltage Thick Film Resistors

## CGX Series

- 1/2W and 1W
- TC of 50 and 100 ppm/°C
- ±1%, ±2%, or ±5% tolerance
- 500K ohm to 1.5 gig ohm range



 All Pb-free parts comply with EU Directive 2011/65/EU (RoHS2)

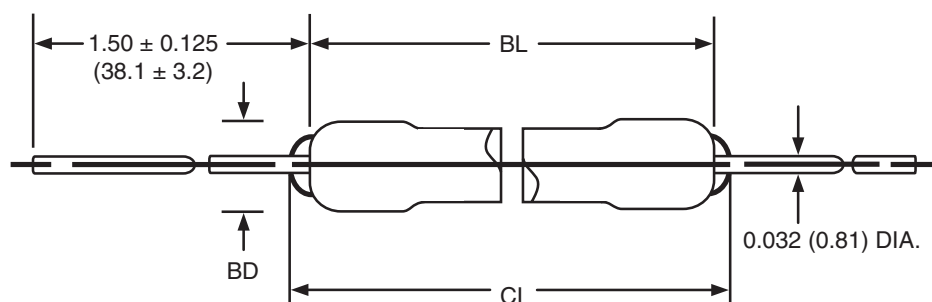
## Electrical Data

| IRC Type  | Power Rating at 70°C (W) | Voltage Rating (Volts) | Resistance Range* (Ohms) | Tolerance (±%) | Maximum <sup>1</sup> TCR (±ppm/°C) | VCR (ppm/V) | Average Weight (gm) | Maximum Weight (gm) |
|-----------|--------------------------|------------------------|--------------------------|----------------|------------------------------------|-------------|---------------------|---------------------|
| CGX - 1/2 | 1/2                      | 3000                   | 500K to 1000M            | 1, 2, 5        | 50, 100                            | 0 to -5     | 0.85                | 0.98                |
| CGX - 1   | 1                        | 5000                   | 1M to 1500M              | 1, 2, 5        | 50, 100                            | 0 to -5     | 1.10                | 1.27                |

### Note:

1. Above 500 meg; only 100ppm/°C available

## Physical Data



Dimensions (Inches and (mm))

| IRC Type  | Body Length (BL)             | Body Diameter (BD)          | Clean Lead to Clean Lead (CL) |
|-----------|------------------------------|-----------------------------|-------------------------------|
| CGX - 1/2 | 0.685 ± 0.031 (17.40 ± 0.79) | 0.140 ± 0.016 (3.55 ± 0.41) | 0.810 (20.57)                 |
| CGX - 1   | 1.062 ± 0.062 (26.97 ± 1.57) | 0.140 ± 0.016 (3.55 ± 0.41) | 1.185 (30.10)                 |

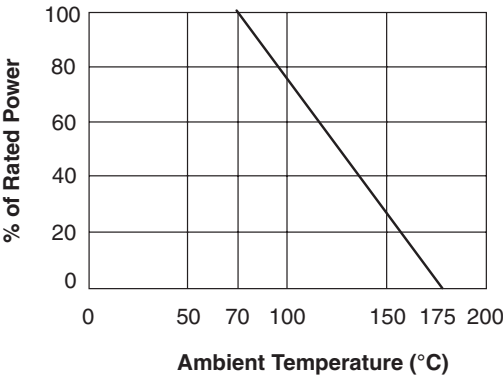
### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.  
All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

BI Technologies IRC Welwyn

[www.ttelectronics.com/resistors](http://www.ttelectronics.com/resistors)

Power Derating Chart



Ordering Data

|                                                               |         |     |      |   |    |
|---------------------------------------------------------------|---------|-----|------|---|----|
| Sample Part No.                                               | CGX - 1 | 100 | 1006 | F | LF |
| IRC Type                                                      |         |     |      |   |    |
| Temperature Coefficient                                       |         |     |      |   |    |
| 100 = 100ppm/°C, 50 = 50ppm/°C                                |         |     |      |   |    |
| Resistance                                                    |         |     |      |   |    |
| Tolerance                                                     |         |     |      |   |    |
| F = 1%<br>G = 2%<br>J = 5%                                    |         |     |      |   |    |
| RoHS Indicator                                                |         |     |      |   |    |
| LF indicates RoHS compliance / Omit this code for SnPb finish |         |     |      |   |    |

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