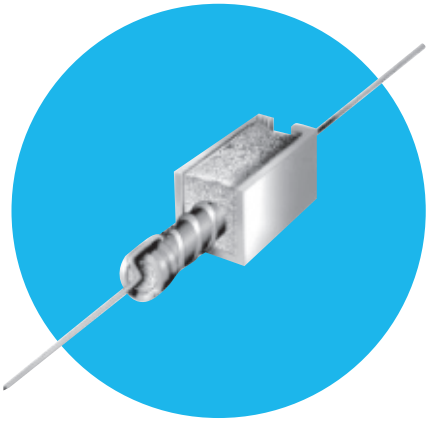
# Resistors

# General Purpose Axial Leaded Power Wirewound Resistor



**PW Axial Series**

- 0.10Ω to 30KΩ
- 2 watts to 25 watts
- ±10% or ±5% tolerance
- TC's from 300 ppm/°C to +5500 ppm/°C
- Lead free, RoHS compliant construction available

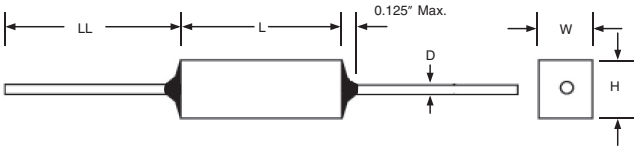
All Pb-free parts comply with EU Directive 2011/65/EU (RoHS2)

## Electrical Data

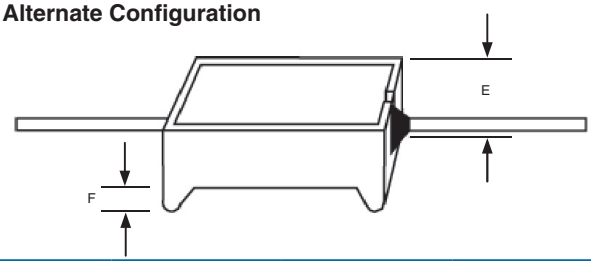
| Type | Power Rating @ 25°C (watts) | Standard Resistance Range (ohms) | Standard Temperature Coefficient | | Special Temperature Coefficients | | |
|---|---|---|---|---|---|---|---|
| | | | +0.06%/°C over R range | +0.03%/°C over R range | +0.55%/°C over R range | +0.45%/°C over R range | +0.25%/°C over R range |
| **PW-2** | 2 | 0.15 to 2.4K | 0.15 to 0.99 | 1.0 to 2.4K | 0.1 to 30 | 0.24 to 130 | 1.0 to 10 |
| **PW-3** | 3 | 0.1 to 7.5K | 0.1 to 0.99 | 1.0 to 7.5K | 0.1 to 86 | 0.1 to 270 | 0.24 to 20 |
| **PW-5** | 5 | 0.1 to 8.5K | 0.1 to 0.99 | 1.0 to 8.5K | 0.1 to 68 | 0.1 to 300 | 0.27 to 22 |
| **PW-7** | 7 | 0.1 to 18K | 0.1 to 0.99 | 1.0 to 18K | 0.1 to 150 | 0.15 to 680 | 1.0 to 51 |
| **PW-10** | 10 | 0.18 to 30K | 0.18 to 0.99 | 1.0 to 30K | 0.1 to 240 | 0.24 to 1100 | 1.0 to 82 |
| **PW-15** | 15 | 0.18 to 30K | 0.18 to 0.99 | 1.0 to 30K | 0.1 to 240 | 0.24 to 1100 | 1.0 to 82 |
| **PW-18** | 18 | 0.18 to 22K | 0.18 to 0.99 | 1.0 to 22K | 0.1 to 200 | 0.24 to 1100 | 1.0 to 70 |
| **PW-22** | 22 | 0.27 to 18K | 0.27 to 1.3 | 1.5 to 12K | 0.15 to 360 | 0.36 to 1800 | 1.0 to 120 |
| **PW-25** | 25 | 0.27 to 18K | 0.27 to 1.3 | 1.5 to 10K | 0.15 to 300 | 0.36 to 1200 | 1.5 to 100 |

## Physical Data

**Standard Configuration**




**Alternate Configuration**




| Type | L ±0.03 (0.8) | W ±0.03 (0.8) | H ±0.03 (0.8) | D Dia. ±0.002 (0.05) | E ±0.03 (0.8) | LL min. | F (ref.) |
|---|---|---|---|---|---|---|---|
| **PW-2** | 0.69 (17.5) | 0.25 (6.35) | 0.25 (6.35) | 0.032 (0.8) | 0.31 (7.87) | 1.44 (36.6) | 0.063 (1.6) |
| **PW-3** | 0.88 (22.4) | 0.31 (7.87) | 0.31 (7.87) | 0.036 (0.91) | 0.38 (9.65) | 1.44 (36.6) | 0.063 (1.6) |
| **PW-5** | 0.88 (22.4) | 0.38 (9.65) | 0.35 (8.89) | 0.036 (0.91) | 0.41 (10.4) | 1.50 (38.1) | 0.063 (1.6) |
| **PW-7** | 1.39 (35.3) | 0.38 (9.65) | 0.35 (8.89) | 0.036 (0.91) | 0.47 (11.9) | 1.50 (38.1) | 0.125 (3.18) |
| **PW-10** | 1.88 (47.8) | 0.38 (9.65) | 0.35 (8.89) | 0.036 (0.91) | 0.47 (11.9) | 1.50 (38.1) | 0.125 (3.18) |
| **PW-15** | 1.88 (47.8) | 0.50 (12.7) | 0.50 (12.7) | 0.036 (0.91) | 0.63 (16.0) | 1.50 (38.1) | 0.125 (3.18) |
| **PW-18** | 1.88 (47.8) | 0.50 (12.7) | 0.50 (12.7) | 0.036 (0.91) | 0.63 (16.0) | 1.50 (38.1) | 0.125 (3.18) |
| **PW-22** | 2.50 (63.5) | 0.50 (12.7) | 0.50 (12.7) | 0.040 (1.0)* | 0.63 (16.0) | 1.50 (38.1) | 0.125 (3.18) |
| **PW-25** | 2.50 (63.5) | 0.50 (12.7) | 0.50 (12.7) | 0.040 (1.0)* | 0.63 (16.0) | 1.50 (38.1) | 0.125 (3.18) |

* Copper Clad Steel

**General Note**

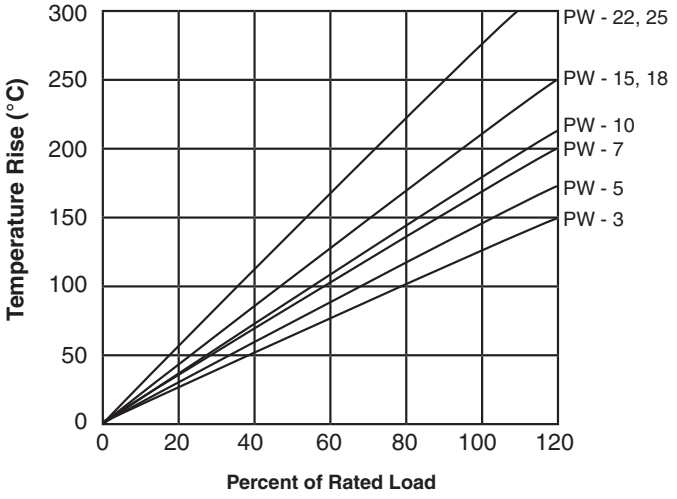
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Bi technologies IRC Welwyn

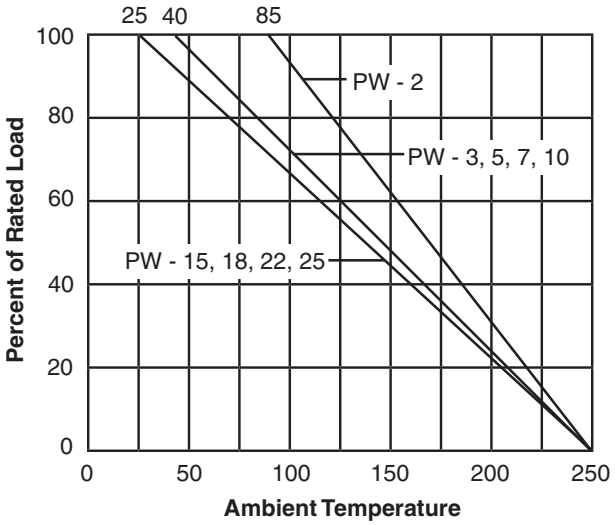
www.ttelectronicsresistors.com

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## Temperature Rise Chart




## Power Derating Curve




# Ordering Procedure

This product has two valid part numbers:

**European (Welwyn) Part Number: PW15-12KKI** (PW15, 12 kilohms ±10%, Pb-free)

| P | W | 1 | 5 | | - | 1 | 2 | K | K | I |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | 2 | | 3 | | | 4 | 5 |

| 1<br>Type | 2<br>Configuration | 3<br>Value | 4<br>Tolerance | 5<br>Packing & Termination Finish |
|---|---|---|---|---|
| PW2, PW3, PW5, PW7, PW10, PW15, PW18, PW22, PW25 | Omit for Standard | R = ohms | J = ±5% | I = Standard packing & Pb-free |
| | A = Alternate | K = kilohms | K = ±10% | Bulk pack |

**USA (IRC) Part Number: PW151202KLF** (PW15, 12 kilohms ±10%, Pb-free)

| P | W | 1 | 5 | | 1 | 2 | 0 | 2 | K | L | F |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | 2 | 3 | | | | 4 | 5 | |

| 1<br>Type | 2<br>Configuration | 3<br>Value | 4<br>Tolerance | 5<br>Packing & Termination Finish |
|---|---|---|---|---|
| PW2, PW3, PW5, PW7, PW10, PW15, PW18, PW22, PW25 | Omit for Standard | 3 digits + multiplier | J = ±5% | Omit for SnPb |
| | A = Alternate | R = ohms for values <100 ohms | K = ±10% | LF = Pb-free |
| | | | | Bulk pack |

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