

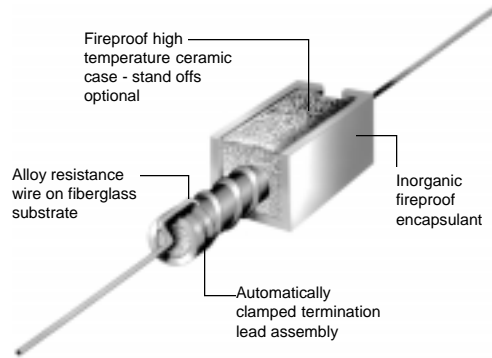
# GENERAL PURPOSE AXIAL LEADED POWER WIREWOUND RESISTOR

ISO-9001  
Registered



## PW SERIES

- 2 watts to 25 watts
- 0.10 ohms to 30K ohms
- ±10% or ±5% tolerance
- TC's from 300 ppm/°C to +5500 ppm/°C



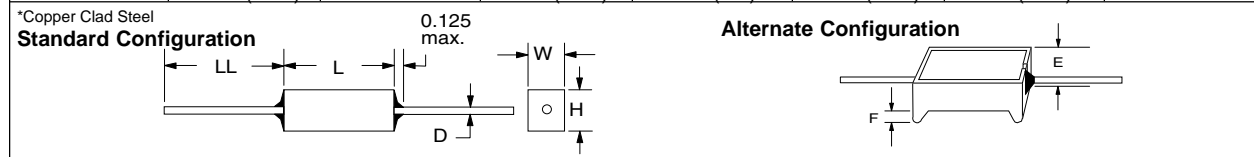
### SPECIFICATIONS:

| IRC 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            |
| 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             |

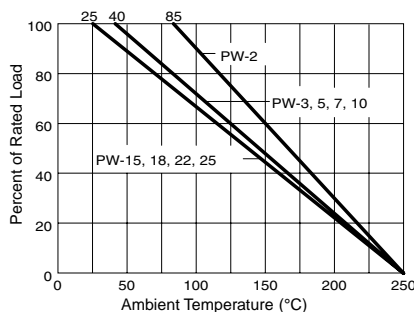
Please note: When ordering the alternate configuration please add an 'A' after the part number. (i.e., PW-2A)

### PW DIMENSIONS (Inches and (mm)):

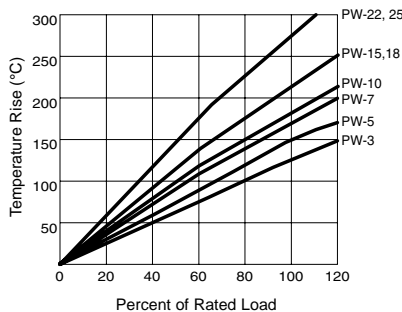
| IRC Type | L±0.03 (0.8) | W±0.03 (0.8) | H±0.03 (0.8) | D Dia.±0.002 | E±0.03 (0.8) | LL min.     | F (ref.) |
|----------|--------------|--------------|--------------|--------------|--------------|-------------|----------|
| PW-2     | 0.69 (17.5)  | 0.25 (6.35)  | 0.25 (6.35)  | 0.032 (0.8)  | 0.31 (7.87)  | 1.44 (36.6) | 0.063    |
| 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    |
| PW-5     | 0.88 (22.4)  | 0.38 (9.65)  | 0.34 (8.64)  | 0.036 (0.91) | 0.41 (10.4)  | 1.50 (38.1) | 0.063    |
| PW-7     | 1.39 (35.3)  | 0.38 (9.65)  | 0.34 (8.64)  | 0.036 (0.91) | 0.47 (11.9)  | 1.50 (38.1) | 0.125    |
| PW-10    | 1.88 (47.8)  | 0.38 (9.65)  | 0.34 (8.64)  | 0.036 (0.91) | 0.47 (11.9)  | 1.50 (38.1) | 0.125    |
| 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    |
| 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    |
| 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    |
| 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    |



### POWER DERATING:



### TEMPERATURE RISE:



### HOW TO ORDER:

Sample Part No.: \_\_\_\_\_

IRC Type: **PW** **18** **12K** **10%**

Power: 18 = 18watts

Resistance Value (standard EIA values): \_\_\_\_\_

Tolerance: ±10 or ±5% standard

### WIREWOUND AND FILM TECHNOLOGIES DIVISION

736 Greenway Road • Boone, North Carolina 28607-1860 • Tel: 828-264-8861 • Fax: 828-264-8866 • www.irctt.com

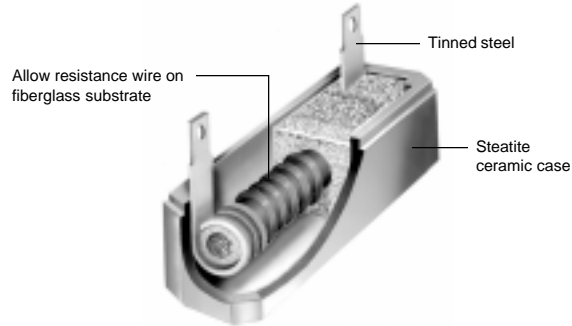
# GENERAL PURPOSE RADIAL TERMINAL POWER WIREWOUND RESISTOR

ISO-9001  
Registered



## PW SERIES

- 20 watts to 50 watts
- 0.10 ohms to 2.0K ohms
- $\pm 10\%$  or  $\pm 5\%$  tolerance
- Custom parts available - consult factory

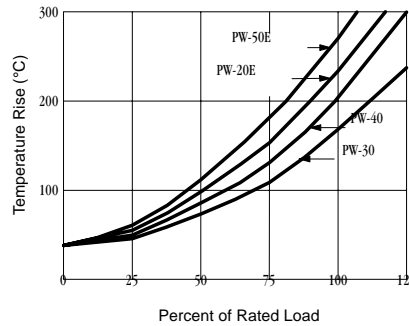


### SPECIFICATIONS:

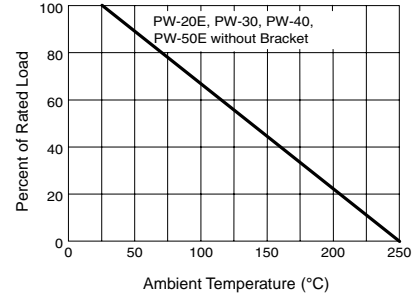
| IRC Type | Power at 25°C (watts) | Resistance Range (ohms) |
|----------|-----------------------|-------------------------|
| PW-20E   | 20                    | 0.1 - 2.0K              |
| PW-30    | 30                    | 0.5 - 1.2K              |
| PW-40    | 40                    | 0.65 - 1.5K             |
| PW-50E   | 50                    | 0.08 - 1.8K             |

- Flameproof inorganic construction
- EIA RS-344, Insulated fixed wirewound resistors
- 1000 hour load life at 25°C: 5% max.
- Moisture no load 240 hours: 2% max.
- Temperature cycling (5 cyc.): 5% max.

### TEMPERATURE RISE at 25°C: (without bracket)



### POWER DERATING:



With Bracket:  
PW-30 Increased to 40 watts  
PW-40 Increased to 50 watts  
PW-50 Increased to 60 watts

### DIMENSIONS (Inches):

**PW-20E Wirewound**

**PW-30, 40 and 50E Wirewound**

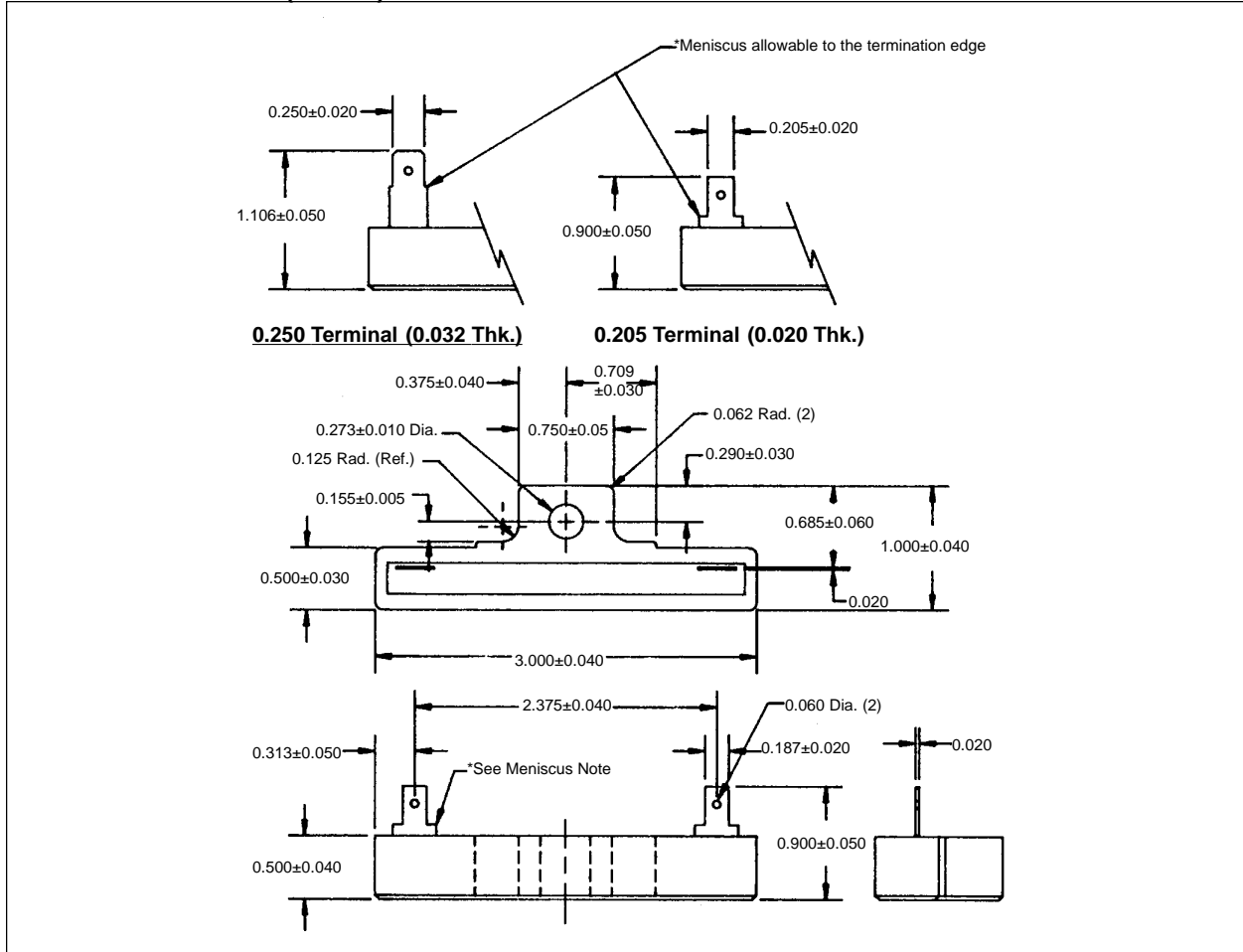
**PW-20E Alternate Terminal Configuration - 0.020" Tin coated Steel**

**Printed Circuit Terminal**

| IRC Type | A ( $\pm 0.030$ ) | B ( $\pm 0.060$ ) |
|----------|-------------------|-------------------|
| PW-20E   | 1.875             | 2.50              |
| PW-30    | 2.00              | 2.55              |
| PW-40    | 2.45              | 3.00              |
| PW-50E   | 3.075             | 3.625             |

## Special PW Power Wireounds

### PW-30E DIMENSIONS (Inches):



### PW-15E DIMENSIONS (Inches):

