

WRF3JB150R Datasheet



| | |
|------------------------------|---|
| DiGi Electronics Part Number | WRF3JB150R-DG |
| Manufacturer | Stackpole Electronics Inc |
| Manufacturer Product Number | WRF3JB150R |
| Description | RES 150 OHM 5% 3W AXIAL |
| Detailed Description | 150 Ohms ±5% 3W Through Hole Resistor Axial Flame Proof, Moisture Resistant, Safety Wirewound |

<https://www.DiGi-Electronics.com>

This model WRF3JB150R is available at DiGi Electronics.

DiGi Electronics offers a global database of semiconductor and electronic component datasheets.

We welcome your inquiries regarding pricing, lead time, or other product-related questions.

 [Request a Quote](#)

 [Datasheet Search](#)



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

WRF3JB150R

Series:

WRF

Resistance:

150 Ohms

Power (Watts):

3W

Features:

Flame Proof, Moisture Resistant, Safety

Operating Temperature:

-55°C ~ 225°C

Supplier Device Package:

Axial

Height - Seated (Max):

-

Failure Rate:

-

Manufacturer:

Stackpole Electronics Inc

Product Status:

Obsolete

Tolerance:

±5%

Composition:

Wirewound

Temperature Coefficient:

-80/ +900ppm/°C

Package / Case:

Axial

Size / Dimension:

0.197" Dia x 0.630" L (5.00mm x 16.00mm)

Number of Terminations:

2

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8533.21.0080

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

WRF Series

Conformal Coated Wirewound Resistor

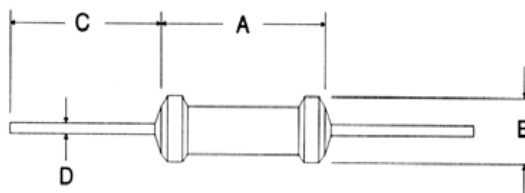
Stackpole Electronics, Inc.
Resistive Product Solutions

- Features:
- Conformal coating
 - Flameproof construction
 - Cut and formed product is available on select sizes
Contact factory for details
 - RoHS compliant / lead-free



Electrical Specifications

| Type / Code | Power Rating (Watts) @ 25°C | Maximum Working Voltage | Dielectric Withstanding Voltage (RMS) | Resistance Temperature Coefficient | Ohmic Range (Ω) and Tolerance |
|-------------|-----------------------------|-------------------------|---------------------------------------|------------------------------------|--|
| | | | | | 5% |
| WRF1 | 1W | \sqrt{PR} | 700V | -80ppm/°C ~ +900ppm/°C | 0.1 - 33 |
| WRF2 | 2W | \sqrt{PR} | 700V | -80ppm/°C ~ +900ppm/°C | 0.1 - 220 |
| WRF3 | 3W | \sqrt{PR} | 700V | -80ppm/°C ~ +900ppm/°C | 0.1 - 220 |



Mechanical Specifications

| Type / Code | A Body Length | B Body Width | C Lead Length (Bulk)(1) | D Lead Diameter | Unit |
|-------------|------------------|-----------------|----------------------------|--------------------|--------|
| WRF1 | 0.433 max | 0.197 max | 1.102 \pm 0.118 | 0.031 \pm 0.002 | inches |
| | 11.00 max | 5.00 max | 28.00 \pm 3.00 | 0.78 \pm 0.05 | mm |
| WRF2 | 0.630 max | 0.197 max | 1.102 \pm 0.118 | 0.031 \pm 0.002 | inches |
| | 16.00 max | 5.00 max | 28.00 \pm 3.00 | 0.78 \pm 0.05 | mm |
| WRF3 | 0.630 max | 0.197 max | 1.102 \pm 0.118 | 0.031 \pm 0.002 | inches |
| | 16.00 max | 5.00 max | 28.00 \pm 3.00 | 0.78 \pm 0.05 | mm |

(1) See "Resistor Packaging Specification Document" for lead length dimension for tape and reel packaged product.

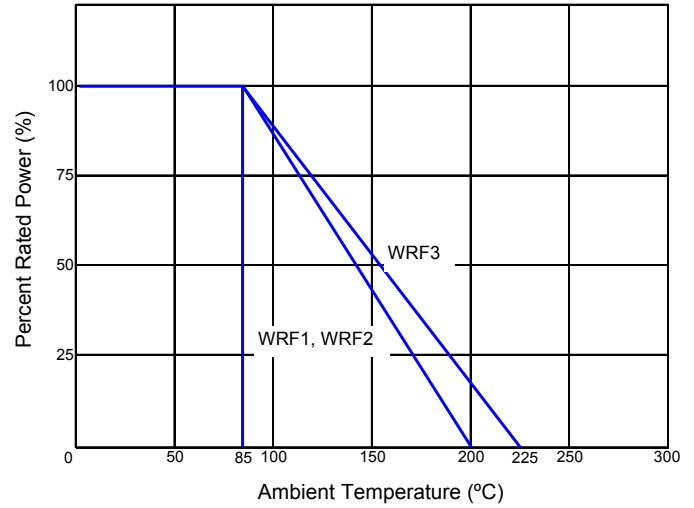
Performance Characteristics

| Test | Test Results |
|-------------------------------------|-------------------------------|
| Rated Ambient Temperature | 85°C |
| Overload 15 Times the Rated Wattage | Open circuit within 2 minutes |
| Short Time Overload | $\pm 3\% + 0.05\Omega$ |
| Effective Soldering | $\pm 2\% + 0.05\Omega$ |
| Insulation Resistance | $>10^4$ M Ω |
| Dielectric Withstanding Volt | $\pm 2\% + 0.05\Omega$ |
| Load Life @ 70°C - 1,000 hrs. | $\pm 5\% + 0.05\Omega$ |
| Moisture Resistance | $\pm 5\% + 0.05\Omega$ |
| Shock and Vibration | $\pm 1\% + 0.05\Omega$ |
| Solderability | 90% tin covered min. |
| Temperature Coefficient | -80ppm/°C ~ +900ppm/°C |

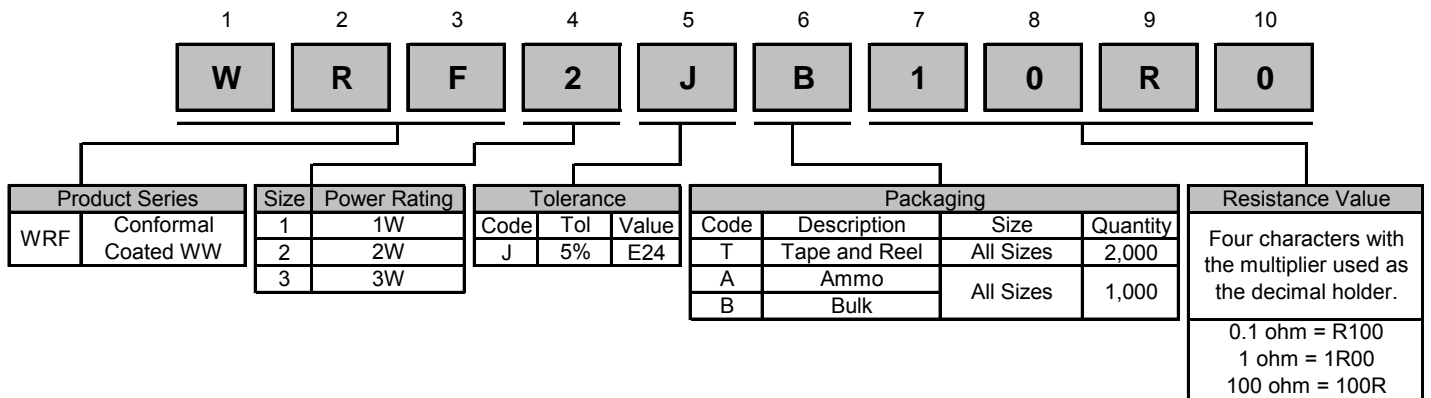
Operating Temperature Range: -55°C to +200°C (WRF 1, 2)
-55°C to +225°C (WRF 3)

WRF Series
Conformal Coated Wirewound Resistor

Power Derating Curve:



How to Order



Legacy Part Number (before January 3, 2011):

| SEI Type | | Code | Nominal Resistance | Tolerance | Packaging | | | | |
|------------|---------------------|----------|--------------------|-----------|-----------|-------|---------------|-------------|------|
| WRF | | 2 | 10R | 5% | A | | | | |
| Type | Description | Code | Tol | | Values | Type | Pkg Qty | Description | Code |
| WRF | Conformal Coated WW | 1 | 5% | E24 | All | 1,000 | Bulk | A | |
| | | 2 | | | All | 2,000 | Tape and Reel | R | |
| | | 3 | | | All | 1,000 | Ammo | T | |

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

Email: Info@DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.