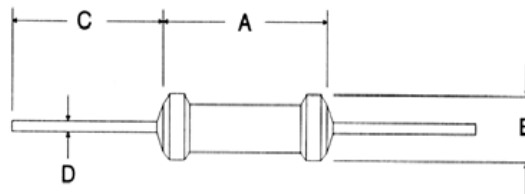


- Features:
- Conformal coating
 - Flameproof construction
 - Cut and formed product is available on select sizes
Contact factory for details
 - RoHS compliant / lead-free



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	√PR	700V	-80ppm/°C ~ +900ppm/°C	0.1 - 33
WRF2	2W	√PR	700V	-80ppm/°C ~ +900ppm/°C	0.1 - 220
WRF3	3W	√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 ± 0.118	0.031 ± 0.002	inches
	11.00 max	5.00 max	28.00 ± 3.00	0.78 ± 0.05	mm
WRF2	0.630 max	0.197 max	1.102 ± 0.118	0.031 ± 0.002	inches
	16.00 max	5.00 max	28.00 ± 3.00	0.78 ± 0.05	mm
WRF3	0.630 max	0.197 max	1.102 ± 0.118	0.031 ± 0.002	inches
	16.00 max	5.00 max	28.00 ± 3.00	0.78 ± 0.05	mm

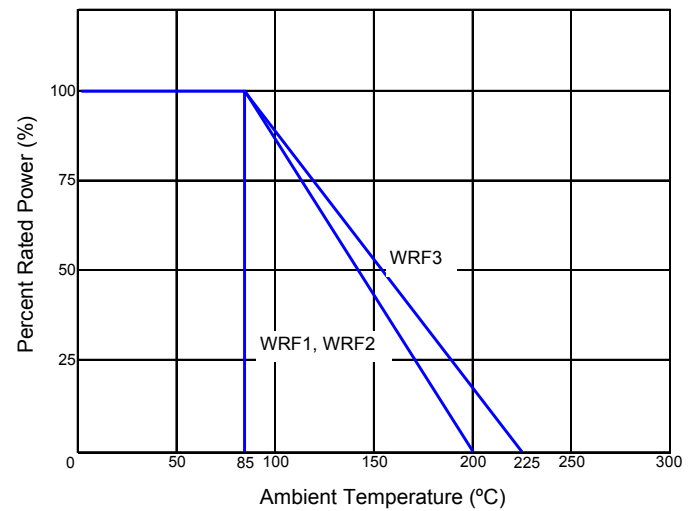
(1) See "Resistor Packaging Specification Document" for lead length dimension for tape and reel packaged product.

Performance Characteristics

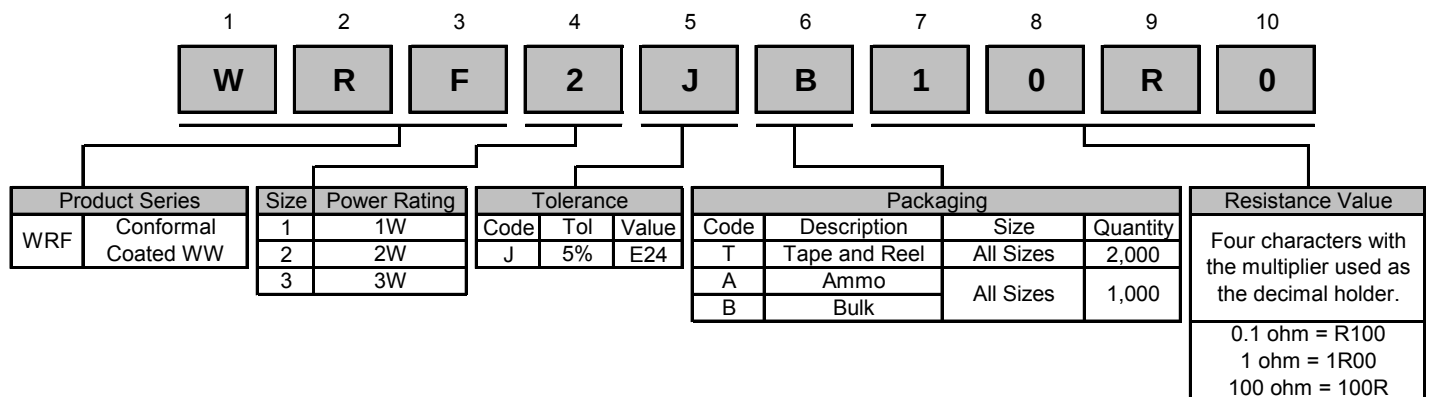
Test	Test Results
Rated Ambient Temperature	85°C
Overload 15 Times the Rated Wattage	Open circuit within 2 minutes
Short Time Overload	± 3% + 0.05Ω
Effective Soldering	± 2% + 0.05Ω
Insulation Resistance	>10 ⁴ MΩ
Dielectric Withstanding Volt	± 2% + 0.05Ω
Load Life @ 70°C - 1,000 hrs.	± 5% + 0.05Ω
Moisture Resistance	± 5% + 0.05Ω
Shock and Vibration	± 1% + 0.05Ω
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)

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