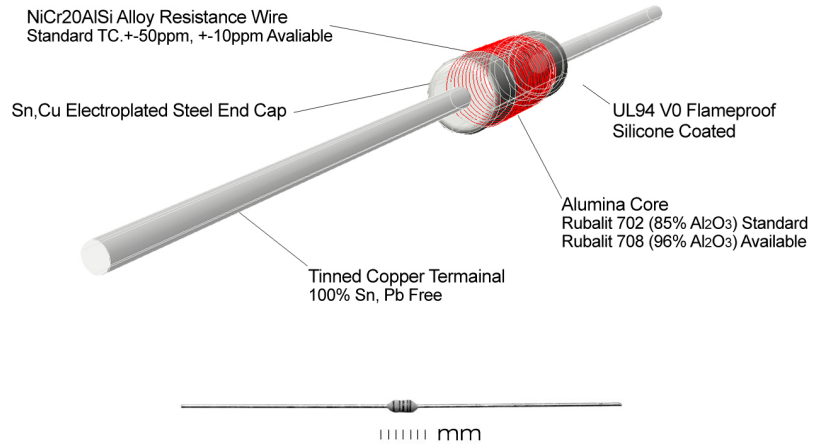




RWIF Series, Power Wirewound Resistor

Precision , High Power , Flameproof Silicone Coated

RoHS
Compliant



FEATURES

- Commercial grade power wirewound resistor, High performance for low cost,
- UL94 V0 Grade Flameproof Silicone Encapsulated
- Superior Overload as well as Surge, Pulse Durability. High Power-To-Size Ratio,
- Superior Temperature Coefficient Characteristics TCR, Resistance vs. Temperature Change Within 90ppm/°C (0.100Ω~0.99Ω), In Normal Working Condition The Resistance Drift <1.00%
- RoHS compliant, Customized Specification, OEM / ODM Manufacturing Mode Available Upon Request.

APPLICATIONS

- For Short Term Pulsing, High Power Dissipation, Capacity Discharge, Voltage Division, Switching Power Supply, DC-to-DC Conversion, and Motor Control...Applications

ELECTRICAL SPECIFICATION

Standard Specifications

Model	Power* Watts	Standard Resistance Range	Weight g/pc
RWIF1/4,	1/4W	R100 ~ 1K00	0.18
RWIF1/2,	1/2W	R100 ~ 4K00	0.23
RWIF1	1W	R100 ~ 11K0	0.47
RWIF2	2W	R100 ~ 18K0	0.85
RWIF3	3W	R100 ~ 35K0	1.17
RWIF4	4W	R200 ~ 50K0	2.10
RWIF5	5W	R500 ~ 100K	4.10

Electrical Specifications

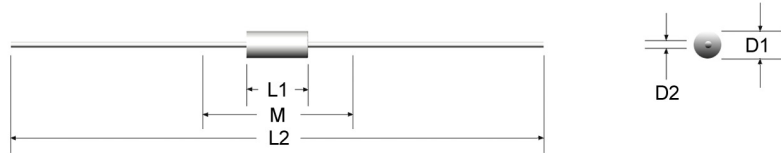
Standard Tolerance %	±0.5%, ±1%, ±5%
Temperature Coefficient	<1.0Ω ±90ppm/°C, 1.0Ω~10.0Ω ±50ppm/°C, >10.0Ω ±20 ppm/°C
Operating Temp. Range	-55°C ~ +155°C
Max Working Voltage	Max Volts = (P x R) ^{1/2}

* Power Rating At 25°C, ** Please refer to RWNM/RWLM for non-inductive specs. or resistance < 0.10 Ohm

PART NUMBER

Model	Power	Resistance	Tolerance	Packaging
RW = Rssistor, Wirewound, I = Inductive, F = Flame Proof Silicone	1/4W 1/2W 1W 2W 3W 4W 5W	R = Decimal, K = 1000 Example 1K00 = 1000Ohm R100 = 0.100Ohm	D = +0.5% F = +1.0% G = +2.0% J = +5.0%	BB = Bulk/Bag TR = Tape/Reel TA = Tape/Ammo Pack

DIMENSIONS Inches / Millimeters



Model	L1±0.03~0.05"	L2±0.020	D1±0.02~0.03"	D2±0.001"	M±0.030"	
RWIF1/4	0.128 / 3.250	2.362 / 60.00	0.075 / 1.900	0.024 / 0.600	0.512 / 13.00	
RWIF1/2	0.231 / 5.869		0.094 / 2.400		0.615 / 15.62	
RWIF1	0.358 / 9.081		0.141 / 3.573		0.732 / 18.58	
RWIF2	0.435 / 11.05	3.23 / 82.00	0.181 / 4.587	0.039 / 1.000	0.809 / 20.55	
RWIF3	0.604 / 15.35		0.207 / 5.264		0.969 / 24.60	
RWIF4	0.683 / 17.35		0.247 / 6.266		1.047 / 26.60	
RWIF5	0.952 / 24.20		3.86 / 95.00		0.319 / 8.100	1.835 / 46.60

**Customized Lead Forming Upon Request

PERFORMANCE CHARACTERISTICS

Parameter	Conditions Of Test	Test Results
Thermo Shock	Environmental chamber, -55°C +0°C, -3°C to 150°C +3°C, -0°C, 100 cycles, Minimum 15 min. at each extremes	±(2.0% + 0.05Ω)ΔR
Short Time Overload	Overload voltage : 5 X rated wattage for 5 sec. for 1/4W~ 3W, 10 X rated wattage for 5 sec. for 5W~10W.	±(2.0% + 0.05Ω)ΔR
Solderability	Bath Temperature 235±5°C, Immersion Time 2±0.5 seconds JIS C 5201 4.17	>95% of contact face covered new solder
Resistance To Solder Heat	Bath Temperature 260±5°C, Immersion Time 10±1 seconds JIS C 5201 4.18	±(1.0% + 0.05Ω)ΔR
Dielectric Withstanding Voltage	Magnitude of test voltage : > 500 volts rms. Duration 1 minute JIS C 5201 4.7	Pass
Insulation Resistance	Apply Max Overload Voltage Duration 1 minute JIS C 5201 4.6	>10 ⁹ Ω
High Temperature Exposure	Exposed to an ambient temperature of 155°C +5°C, -0°C, 1000 hours max	±(3.0%+0.05Ω)ΔR
Low Temperature Storage	At a temperature of -55°C ±2°C for a period of 1000 +48/-0 hours	±(1.5%+0.05Ω)ΔR
Life	Test temperature At 70°C ±2°C, Rated DC continuous working voltage applied, 1.5 hours on and 0.5 hours off. 1000 hour	±(3.0%+0.05Ω)ΔR

PACKAGING Inches / Millimeter

Model	Tape Width	Taping Pitch	Reel Dia.	Pc/Reel	Bulk Pkg.	Pc/Bag
RWI/NF1/4	2.519 / 64.0	0.197 / 5.00	11.4 / 290	5000	BA	250
RWI/NF1/2				4500	BB	250
RWI/NF1				2000	B1	250
RWI/NF2	3.307 / 84.0	0.394 / 10.0		2000	B2	200
RWI/NF3				1000	B3	200
RWI/NF4				1000	B4	100
RWI/NF5				500	B5	50

** Customized Dimensions Available Upon Request

** Specification Subject To Change Without Notice

ADVANCED WIRE WINDING TECHNOLOGY