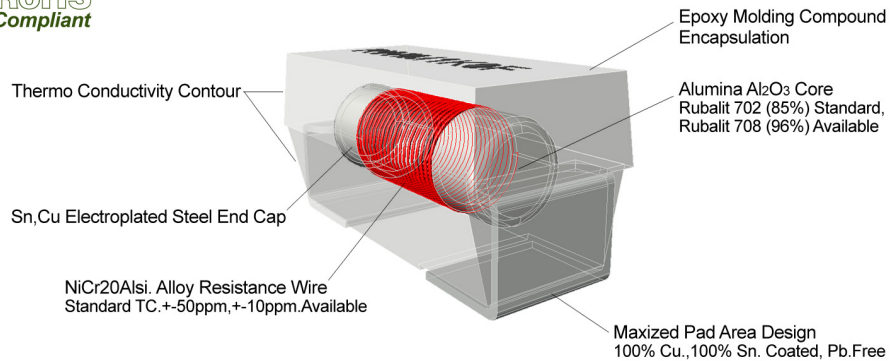




RWIS, RWNS Power Wirewound Resistor

Precision , High Power , Surface Mount Device

RoHS
Compliant



FEATURES

- Precision High Power Wirewound Resistor, Products of Advanced Electronic Material, Precision Computer Numerical Control Manufacturing, and Tightest Quality Control Process.
- Superior Overload as well as Surge, Pulse Durability.
- High Power-To-Size Ratio, Enlarged Terminal, Epoxy Body Contour Designed For Heat Dissipation.
- Superior Temperature Coefficient Characteristics TCR, Resistance vs. Temperature change within 10ppm/°C to 90ppm/°C, In Normal Working Condition The Resistance Drift <1.00%
- RWNS: Non-Inductive (Ayrton-Perry Winding) Specifications Designed for Capable of Withstanding Repeated Energy Pulses, High Frequency Working Conditions,
- RoHS Compliant Products
- Customized Specification OEM/ODM Manufacturing Mode Available Upon Request.

APPLICATIONS

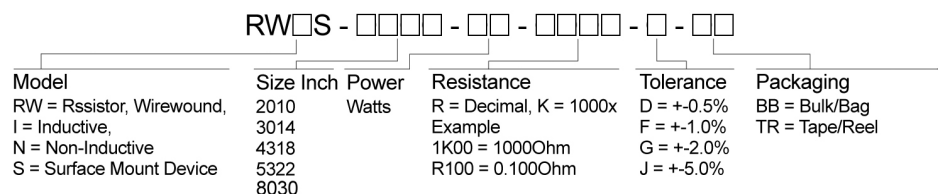
- For Short Term Pulsing, High Power Dissipation, Capacity Discharge, Voltage Division, Switching Power Supply, DC-to-DC Conversion, and Motor Control...Applications
- Industries including White Goods, 3C Products, Automotives, Communication and Medical...

ELECTRICAL SPECIFICATION

Model		RWIS2010	RWIS3014	RWIS4318	RWIS5322	RWIS8030
Power Rating P*	Watts	1/2W	1W	2W	3W	5W
Resistance Range R**	Ohm	R005 ~ 1K20	R005 ~ 5K00	R005 ~ 12K0	R010 ~ 20K0	R050~50K0
Non-Inductive Resistance		R100 ~ 200R* ⁴	R100 ~ 1K00	R100 ~ 2K40	R100 ~ 4K00	R100~10K0
Standard Tolerance %	±%	0.5%, 1%, 5%				
Temperature Coefficient ***	ppm/°C	0.100Ω~0.99Ω ±90ppm, 1.00Ω~10.00Ω ±50ppm, >10.00Ω ±20ppm				
Operating Temperature Range	°C	-55°C ~ +155°C				
Maximum Working Voltage	Volts	(P x R) ^{1/2}				
Weight 1000pcs	gm	103	280	640	1105	2960

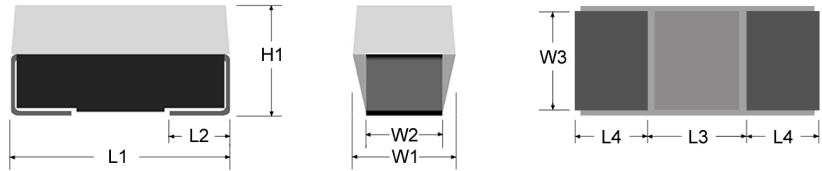
P.*= Power rating at 70°C, R**.= Nominal DC Resistance at 25°C, TCR***= Two standard series of test temperature, First series : 25°C, 0°C, -15°C and -55°C, The second series : 25°C, 50°C, 75°C, 125°C, and 150°C, TCR= (R2-R1) / R1(T2-T1) x 10⁶. *4 Contact for special resistance value.

PART NUMBER



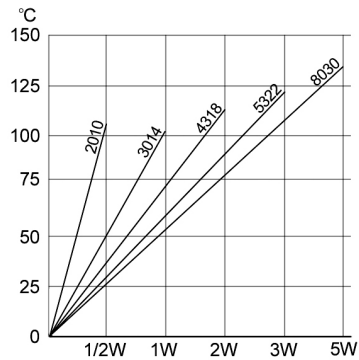
- Consult with our R&D team for special purpose use of components.

DIMENSIONS

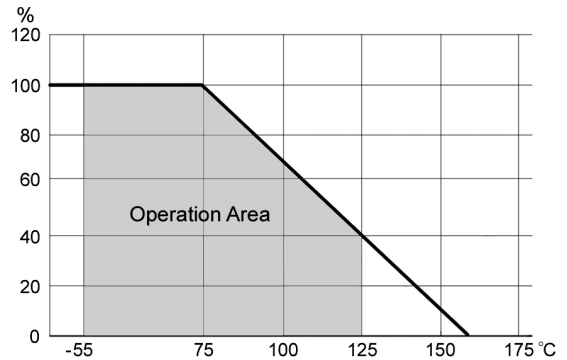


Model	Dimensions inches / millimeters +-inches					Solder Pad Dimensions		
	L1±0.020"	L2±0.010"	H1±0.015"	W1 ±0.005"	W2±0.010"	L3±0.015"	L4±0.015"	W3±0.015"
RWIS2010	0.200/05.08	0.051/1.30	0.128/3.25	0.100/2.54	0.063/1.60	0.082/2.08	0.087/2.21	0.083/2.10
RWIS3014	0.295/07.50	0.069/1.75	0.183/4.64	0.138/3.50	0.094/2.40	0.142/3.60	0.104/2.65	0.114/2.90
RWIS4318	0.433/11.00	0.091/2.30	0.183/4.65	0.177/4.50	0.118/3.00	0.236/6.00	0.130/3.30	0.138/3.50
RWIS5322	0.533/13.50	0.102/2.60	0.228/5.80	0.217/5.50	0.157/4.00	0.311/7.90	0.150/3.80	0.177/4.50
RWIS8030	0.800/20.30	0.118/3.00	0.310/7.87	0.300/7.62	0.173/4.40	0.539/13.7	0.173/4.40	0.197/5.00

TEMPERATURE RISE (In °C)



DERATING (Rated Power In %)



PERFORMANCE CHARACTERISTICS

Parameter	Conditions Of Test	Test Results
Thermo Shock	-55°C +0°C, -3°C to 150°C +3°C, -0°C, 100 cycles, Minimum 15 minute at each extremes	±(1.0% + 0.05Ω)ΔR
Short Time Overload	Overload voltage : 5 Times rated wattage for 5 seconds	±(1.0% + 0.05Ω)ΔR
Solderability	Bath Temperature 235±5°C, Immersion Time 2±0.5seconds 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	±(0.5% + 0.05Ω)ΔR
Dielectric Withstanding Voltage	Magnitude of test voltage : > 500 volts. 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.	±(2.0%+0.05Ω)ΔR
Low Temperature Storage	At a temperature of -55°C ±2°C for a period of 1000 +48/-0 hours	±(1.0%+0.05Ω)ΔR
Life	70°C ±2°C, Rated DC working voltage applied, 1.5 hours on and 0.5 hours off. 1000 hour	±(2.0%+0.05Ω)ΔR

PACKAGING inches / millimeters

Model	Tape Width	Pitch	Reel Dia.	Pcs./ Reel	Parts No.	Pcs./Bulk Bag
RWIS2010	0.472 / 12.0	0.315 / 8.00	13 / 330	2500	KA12	200
RWIS3014	0.629 / 16.0			1500	KA12	200
RWIS4318	0.629 / 16.0			1500	KB16	200
RWIS5322	0.945 / 24.0			1500	KC24	100
RWIS8030	1.260 / 32.0			0.472 / 12.0	600	KC24