Vishay Dale



Metal Oxide Resistors, Special Purpose, High Voltage



FEATURES

- Low TC: ± 200 ppm/°C standard;
 ± 100 ppm/°C, ± 50 ppm/°C available
- \pm 1 % standard to 1 GΩ; \pm 5 % above 1 GΩ \pm 0.5 % available in \pm 50 ppm/°C only. Special tolerance and/or temperature coefficient matching available.
- High Voltagype (up to 8 kV)
- For oil bath or open air operation
- Matched sets available
- Special testing available upon request
- Lead (Pb)-free version is RoHS compliant

STANDARD ELECTRICAL SPECIFICATIONS									
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING			VOLTAGE	RESISTANCE RANGE $\Omega^{(2)}$			
		P _{25 °C} W ⁽¹⁾	P _{70 °C} W ⁽¹⁾	<i>P</i> _{125 °C} W ⁽¹⁾	RATING V≅	200 ppm	100 ppm	50 ppm	NON-INDUCTIVE ⁽³⁾
RNX025	RNX-1/4	0.5	0.36	0.25	750 V	1K - 100M	1K - 100M	1M - 22M	100R - 100K
RNX038	RNX-3/8	1.0	0.72	0.5	1.5 kV	1K - 1G	1K - 100M	1M - 50M	100R - 100K
RNX050	RNX-1/2	1.2	0.86	0.6	2 kV	1K - 2G	1K - 250M	1M - 100M	100R - 100K
RNX075	RNX-3/4	2.0	1.44	1.0	3 kV	1K - 2G	1K - 500M	1M - 100M	100R - 100K
RNX100	RNX-1	2.5	1.8	1.25	4 kV	1K - 2G	1K - 500M	1M - 100M	100R - 1M
RNX125	RNX-1-1/4	3.0	2.16	1.5	5 kV	1K - 2G	1K - 500M	-	100R - 1M
RNX150	RNX-1-1/2	4.0	2.88	2.0	6 kV	1K - 2G	1K - 500M	-	100R - 1M
RNX200	RNX-2	5.0	3.6	2.5	8 kV	1K - 2G	1K - 500M	-	100R - 1M

Notes:

⁽¹⁾ Increase wattage by 25 % for 0.032" [0.813 mm] diameter leads

⁽²⁾ For resistance values above and below those listed please contact us

(3) Non inductive ± 200 ppm/°C TCR only

· All resistance values are calibrated at 100 VDC. Calibration at other voltages available

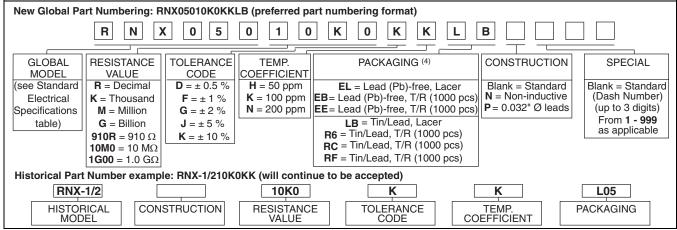
• Part Marking: print marked - DALE, model, value, tolerance, TCR, date code (model and date omitted on RNX-1/4)

Special Modifications:

- Special preconditioning (power aging, temperature cycling etc.) to customer specifications

- Non-helixed resistors can be supplied for critical high frequency applications (non-inductive)

GLOBAL PART NUMBER INFORMATION



Notes:

⁽⁴⁾ Some packaging codes are model specific

* Pb containing terminations are not RoHS compliant, exemptions may apply.



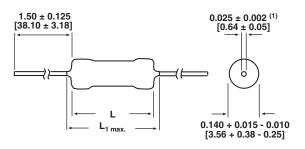
COMPLIANT



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DIMENSIONS

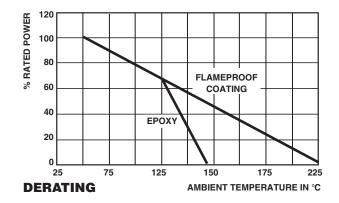


GLOBAL	DIMENSIONS in inches [millimeters]						
MODEL	L	L _{1 max.}					
RNX025	0.290 ± 0.020 [7.37 ± 0.51]	0.358 [9.09]					
RNX038	0.420 ± 0.020 [10.67 ± 0.51]	0.470 [11.94]					
RNX050	0.540 ± 0.020 [13.72 ± 0.51]	0.595 [15.11]					
RNX075	0.790 ± 0.020 [20.07 ± 0.51]	0.845 [21.46]					
RNX100	1.040 ± 0.020 [26.42 ± 0.51]	1.100 [27.81]					
RNX125	1.290 ± 0.020 [32.77 ± 0.51]	1.350 [34.16]					
RNX150	1.540 ± 0.020 [39.12 ± 0.51]	1.600 [40.51]					
RNX200	2.040 ± 0.020 [51.82 ± 0.51]	2.100 [53.34]					

Note:

⁽¹⁾ Available with 0.032" [0.813 mm] leads \pm 0.002" [0.051 mm].

TECHNICAL SPECIFICATIONS									
PARAMETER	UNIT	RNX025	RNX038	RNX050	RNX075	RNX100	RNX125	RNX150	RNX200
Insulation Resistance	Ω	≥ 10 ¹¹							
Category Temperature Range	°C	- 55/+ 155							



MATERIAL SPECIFICATIONS					
Element:	High temperature fired cermet film				
Core:	High purity 96 % alumina				
Coating:	Epoxy on RNX025 and RNX038 Flameproof on RNX050 to RNX200				
Termination:	Standard lead material is solder - coated copper. Solderable and weldable.				

MECHANICAL SPECIFICATIONS				
Terminal Strength:	5 pound pull test			
Solderability:	Continuous satisfactory coverage when tested in accordance with MIL-STD-202, Method 208			



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