



Vishay Dale

Metal Oxide Resistors, Special Purpose, High Voltage



FEATURES

 Low TCR: ± 200 ppm/°C standard; ± 100 ppm/°C; ± 50 ppm/°C available



 Tolerance: ± 1 % standard to 1 GΩ; ± 5 % above 1 GΩ; ± 0.5 % available in ± 50 ppm/°C only. Special tolerance and / or temperature coefficient matching available

BoHS*

- High voltage (up to 8 kV)
- For oil bath or open air operation
- · Matched sets available
- · Special testing available upon request
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Note

This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

		POWER RATING			MAXIMUM	RESISTANCE		TEMPERATURE	
GLOBAL MODEL	HISTORICAL MODEL	P _{25 °C} ⁽¹⁾	<i>P</i> _{70 °C} ⁽¹⁾ W	P _{125 °C} ⁽¹⁾ W	WORKING VOLTAGE ⁽²⁾ V	RANGE ⁽³⁾ Ω	TOLERANCE ± %	COEFFICIENT ± ppm/°C	
						1M to 22M	0.5, 1, 2, 5, 10	50	
RNX025	RNX-1/4	0.5	0.36	0.25	750	1K to 100M	1, 2, 5, 10	100, 200	
						100 to 100K	1, 2, 5, 10	Non-inductive (4)	
RNX038	RNX-3/8	1.0	0.72	0.5	1.5K	1M to 50M	0.5, 1, 2, 5, 10	50	
						1K to 100M	1, 2, 5, 10	100	
						1K to 1G	1, 2, 5, 10	200	
						100 to 100K	1, 2, 5, 10	Non-inductive (4)	
RNX050	RNX-1/2	1.2	0.86	0.6	2K	1M to 100M	0.5, 1, 2, 5, 10	50	
						1K to 250M	1, 2, 5, 10	100	
						1K to 2G	1, 2, 5, 10	200	
						100 to 100K	1, 2, 5, 10	Non-inductive (4)	
RNX075	RNX-3/4	2.0	1.44	1.0	3K	1M to 100M	0.5, 1, 2, 5, 10	50	
						1K to 500M	1, 2, 5, 10	100	
						1K to 2G	1, 2, 5, 10	200	
						100 to 100K	1, 2, 5, 10	Non-inductive (4)	
DNIV400	RNX-1	2.5	1.8	1.25	4K	1M to 100M	0.5, 1, 2, 5, 10	50	
						1K to 500M	1, 2, 5, 10	100	
RNX100						1K to 2G	1, 2, 5, 10	200	
						100 to 1M	1, 2, 5, 10	Non-inductive (4)	
	RNX-1-1/4	3.0	2.16	1.5	5K	1K to 500M	1, 2, 5, 10	100	
RNX125						1K to 2G	1, 2, 5, 10	200	
						100 to 1M	1, 2, 5, 10	Non-inductive (4)	
RNX150	RNX-1-1/2	4.0	2.88	2.0	6K	1K to 500M	1, 2, 5, 10	100	
						1K to 2G	1, 2, 5, 10	200	
						100 to 1M	1, 2, 5, 10	Non-inductive (4)	
RNX200	RNX-2	5.0	3.6	2.5	8K	1K to 500M	1, 2, 5, 10	100	
						1K to 2G	1, 2, 5, 10	200	
						100 to 1M	1, 2, 5, 10	Non-inductive (4)	

Notes

- All resistance values are calibrated at 100 V_{DC}. 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:

Revision: 11-Jan-2021

- Special preconditioning (power aging, temperature cycling etc.) to customer specifications Non-helixed resistors can be supplied for critical high frequency applications (non-inductive)
- (1) Increase wattage by 25 % for 0.032" (0.813 mm) diameter leads
- (2) Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less
- (3) For resistance values above and below those listed please contact us
- (4) Non-inductive ± 200 ppm/°C TCR only

1 Document Number: 31032

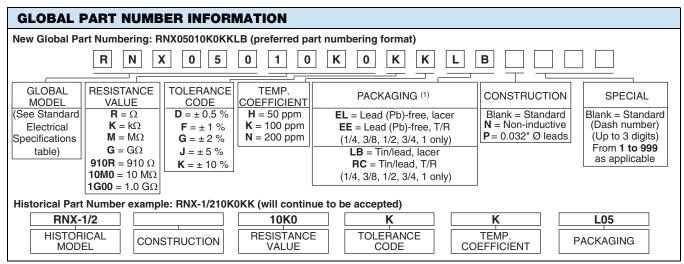




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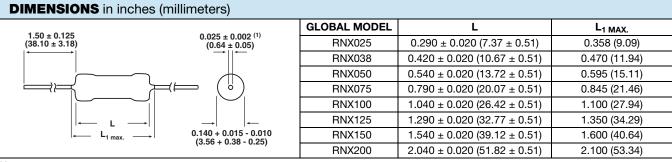
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TECHNICAL SPECIFICATIONS									
PARAMETER	UNIT	RNX025	RNX038	RNX050	RNX075	RNX100	RNX125	RNX150	RNX200
Insulation Resistance	Ω	≥ 10 ¹¹							
Category Temperature Range	°C	Epoxy coated = - 55/+ 150; silicone coated = - 55/+ 225							



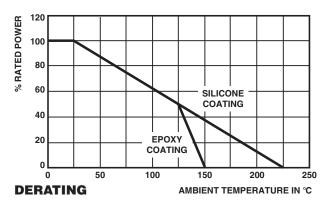
Notes

- (1) Some packaging codes are model specific
- For additional information on packaging, refer to the Through-Hole Resistor Packaging document (www.vishay.com/doc?31544)



Note

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



MATERIAL SPECIFICATIONS					
Element	High temperature fired cermet film				
Core	High purity 96 % alumina				
Coating	Flame-retardant epoxy on RNX025 and RNX038, flameproof silicone on RNX050 to RNX200				
Termination	Standard lead material is solder-coated copper. Solderable and weldable.				

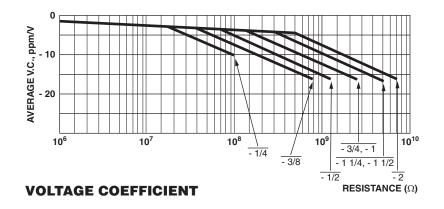
MECHANICAL SPECIFICATIONS				
Terminal Strength	5 pound pull test			
Solderability	Continuous satisfactory coverage when tested in accordance with MIL-STD-202, method 208			



RNX

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