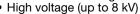


Metal Oxide Resistors, Special Purpose, High Voltage



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.



- High voltage (up to 8 kV)For oil bath or open air operation
- Matched sets available
- Special testing available upon request
- Compliant to RoHS Directive 2002/95/EC





STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	HISTORICAL MODEL	P _{25°C} (1)	OWER RATI	NG P _{125 °C} ⁽¹⁾ W	MAXIMUM WORKING VOLTAGE (2) V	RESISTANCE RANGE $^{(3)}$	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C
		**	**	**	V	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
						1M to 50M	0.5, 1, 2, 5, 10	50
RNX038	RNX-3/8	1.0	0.72	0.5	1.5K	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
						1M to 100M	0.5, 1, 2, 5, 10	50
RNX050	RNX-1/2	1.2	0.86	0.6		1K to 250M	1, 2, 5, 10	100
					2K	1K to 2G	1, 2, 5, 10	200
						100 to 100K	1, 2, 5, 10	Non-inductive (
RNX075	RNX-3/4	2.0	1.44	1.0		1M to 100M	0.5, 1, 2, 5, 10	50
					3K	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
RNX100	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
						1K to 2G	1, 2, 5, 10	200
						100 to 1M	1, 2, 5, 10	Non-inductive (4
RNX125	RNX-1-1/4	3.0	2.16	1.5	5K	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
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

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:

 Special preconditioning (power aging, temperature cycling etc.) to customer specifications
 Non-helixed resistors can be supplied for critical high frequency applications (non-inductive)

 Increase wattage by 25 % for 0.032 (0.813 mm) diameter leads
 Continuous working voltage shall be √P x R or maximum working voltage, whichever is less.
 Every resistance values are placed with these listed places contact us.

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

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

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							

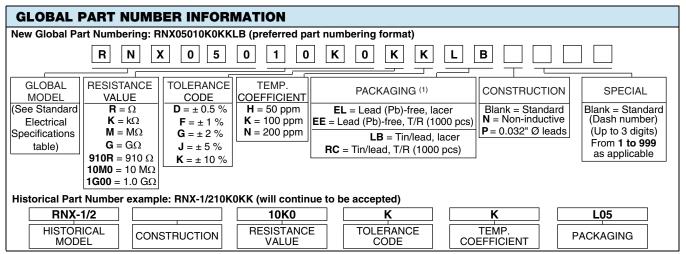
^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

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Vishay Dale

Metal Oxide Resistors, Special Purpose, High Voltage





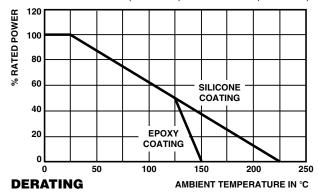
Note

(1) Some packaging codes are model specific

DIMENSIONS in inches (millimeters)					
		GLOBAL MODEL	L	L _{1 MAX.}	
1.50 ± 0.125 (38.10 ± 3.18)	0.025 ± 0.002 ⁽¹⁾ (0.64 ± 0.05)	RNX025	0.290 ± 0.020 (7.37 ± 0.51)	0.358 (9.09)	
		RNX038	$0.420 \pm 0.020 (10.67 \pm 0.51)$	0.470 (11.94)	
		RNX050	$0.540 \pm 0.020 (13.72 \pm 0.51)$	0.595 (15.11)	
		RNX075	$0.790 \pm 0.020 (20.07 \pm 0.51)$	0.845 (21.46)	
		RNX100	$1.040 \pm 0.020 (26.42 \pm 0.51)$	1.100 (27.94)	
	→	RNX125	$1.290 \pm 0.020 (32.77 \pm 0.51)$	1.350 (34.29)	
← L _{1 max.} →	0.140 + 0.015 - 0.010 (3.56 + 0.38 - 0.25)	RNX150	$1.540 \pm 0.020 (39.12 \pm 0.51)$	1.600 (40.64)	
Mata	(0.30 + 0.30 - 0.23)	RNX200	$2.040 \pm 0.020 (51.82 \pm 0.51)$	2.100 (53.34)	

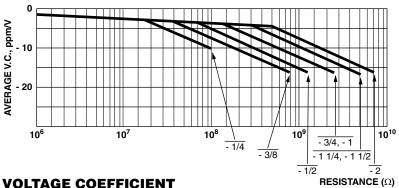
Note

⁽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			



VOLTAGE COEFFICIENT

Document Number: 31032 Revision: 19-Nov-10



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