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Vishay Dale

## Metal Oxide Resistors, Special Purpose, High Voltage



## **FEATURES**

- Low TCR:  $\pm$  200 ppm/°C standard;  $\pm$  100 ppm/°C,  $\pm$  50 ppm/°C available Tolerance:  $\pm$  1 %;  $\pm$  2 %;  $\pm$  5 %;  $\pm$  10 %
- High Voltage (up to 45 kV) For oil bath or open air operation
- Matched sets available
- Special testing available upon request Material categorization: For definitions of compliance please www.vishay.com/doc?99912 RoHS SEE COMPLIANT Note

Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

STANDARD ELECTRICAL SPECIFICATIONS												
		POWER RATING			MAXIMUM	RESISTANCE		TEMPERATURE				
GLOBAL MODEL	HISTORICAL MODEL	P <sub>25 °C</sub> <sup>(1)</sup> W	<i>P</i> <sub>70 °C</sub> <sup>(1)</sup> W	P <sub>125 °C</sub> <sup>(1)</sup> W	WORKING VOLTAGE <sup>(2)</sup> V	RANGE <sup>(3)</sup> Ω	TOLERANCE ± %	COEFFICIENT ± ppm/°C				
					-	1M to 100M	1, 2, 5, 10	50				
ROX050	ROX-1/2	2.0	1.4	1.0	2K	1K to 100M	1, 2, 5, 10	100				
		-		_		1K to 1G	1, 2, 5, 10	200				
						1M to 100M	1, 2, 5, 10	50				
DOVOZE	ROX-3/4	3.0	2.16	1.5	5K -	1K to 500M	1, 2, 5, 10	100				
ROX075						1K to 3G	1, 2, 5, 10	200				
						100 to 1M	1, 2, 5, 10	Non-inductive <sup>(4)</sup>				
						1M to 100M	1, 2, 5, 10	50				
DOV/100			0.00		7.514	1K to 500M	1, 2, 5, 10	100				
ROX100	ROX-1	4.0	2.88	2.0	7.5K	1K to 3G	1, 2, 5, 10	200				
						100 to 1M	1, 2, 5, 10	Non-inductive <sup>(4)</sup>				
						1M to 100M	1, 2, 5, 10	50				
DOVAGO	ROX-1-1/2	5.0	3.6	2.5	11K	1K to 500M	1, 2, 5, 10	100				
ROX150						1K to 3G	1, 2, 5, 10	200				
						100 to 1M	1, 2, 5, 10	Non-inductive <sup>(4)</sup>				
	ROX-2	6.0	4.32	3.0	15K	1M to 500M	1, 2, 5, 10	50				
ROX200						1K to 1G	1, 2, 5, 10	100				
						1K to 3G	1, 2, 5, 10	200				
						100 to 1M	1, 2, 5, 10	Non-inductive <sup>(4)</sup>				
						1M to 500M	1, 2, 5, 10	50				
ROX300	ROX-3	10.0	7.2	5.0	22.5K	1K to 1G	1, 2, 5, 10	100				
						1K to 3G	1, 2, 5, 10	200				
						400 to 10M	1, 2, 5, 10	Non-inductive <sup>(4)</sup>				
						1M to 500M	1, 2, 5, 10	50				
ROX400	ROX-4	12.0	8.64	6.0	30K -	1K to 1G	1, 2, 5, 10	100				
ROX400						1K to 3G	1, 2, 5, 10	200				
						500 to 10M	1, 2, 5, 10	Non-inductive <sup>(4)</sup>				
						1M to 500M	1, 2, 5, 10	50				
ROX500	ROX-5	16.0	11.52	8.0	07 EK	1K to 1G	1, 2, 5, 10	100				
RUX500	ROX-5	16.0	11.52	0.0	37.5K	1K to 3G	1, 2, 5, 10	200				
						500 to 10M	1, 2, 5, 10	Non-inductive <sup>(4)</sup>				
						1M to 500M	1, 2, 5, 10	50				
ROX600	ROX-6	20.0	14.4	10.0	45K	1K to 1G	1, 2, 5, 10	100				
						1K to 3G	1, 2, 5, 10	200				
						500 to 10M	1, 2, 5, 10	Non-inductive <sup>(4)</sup>				

Notes

All resistance values are calibrated at 100 V<sub>DC</sub>. Calibration at other voltages available.

All resistance values are calibrated at 100 vpc. Calibration at other voltages available.  $\pm 1 \%$  not available above 1 GΩ Part marking: Print marked - Dale, model, value, tolerance, temperature coefficient, date code Increase wattage by 40 % for 0.040" (1.02 mm) diameter leads Continuous working voltage shall be  $\sqrt{P \times R}$  or maximum working voltage, whichever is less. (1)

(2)

For resistance values above and below those listed please contact us Non-inductive ± 200 ppm/°C TCR only (3)

(4)

TECHNICAL SPECIFICATIONS											
PARAMETER	UNIT	ROX050	ROX075	ROX100	ROX150	ROX200	ROX300	ROX400	ROX500	ROX600	
Insulation Resistance	Ω	$\geq 10^{11}$									
Category Temperature Range °C Epoxy coated = - 55/+ 18				180; Silicone coated = - 55/+ 230							

1

Revision: 15-Nov-12

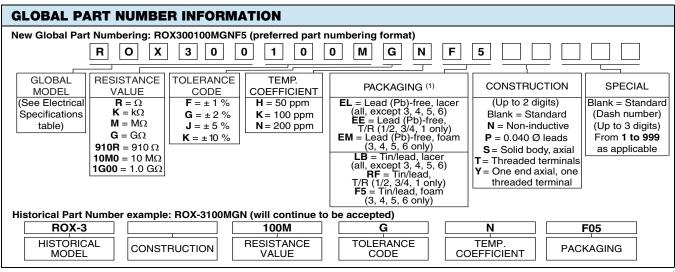
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ROX

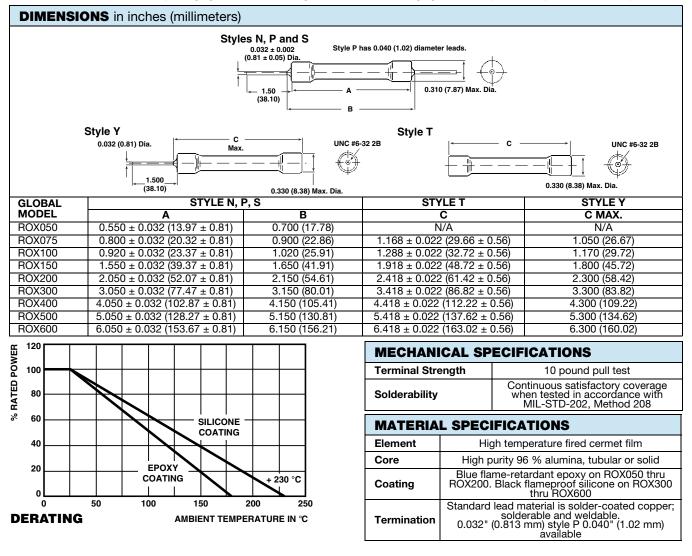
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Notes

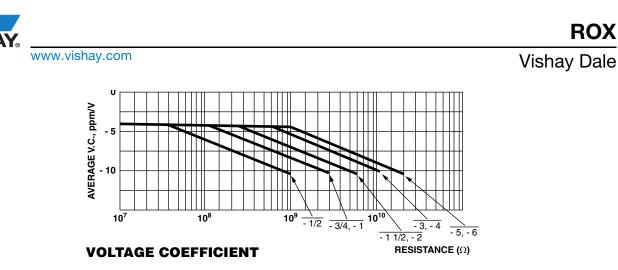
<sup>(1)</sup> Some packaging codes are model specific.

For additional information on packaging, refer to the Through-Hole Resistor Packaging document (<u>www.vishay.com/doc?31544</u>).



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