

Metal Oxide Resistors, Special Purpose, High Voltage



FEATURES

- Low TCR: ± 200 ppm/°C sta ± 100 ppm/°C, ± 50 ppm/°C available
 Tolerance: ± 1 %; ± 2 %; ± 5 %; ± 10 %
 High Voltage (up to 45 kV)

- For oil bath or open air operation
- Matched sets available
- Special testing available upon request
 Compliant to RoHS Directive 2002/95/EC





							ective 2002/95/	EC COMPLIANT
STAND!	ARD ELECTR	ICAL SE	PECIFIC	ATIONS				
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING			MAXIMUM WORKING	RESISTANCE	TOLERANCE	TEMPERATURE
		<i>P</i> _{25 °C} ⁽¹⁾ W	<i>P</i> _{70 °C} ⁽¹⁾ W	P _{125 °C} (1)	VOLTAGE (2) V	RANGE $^{(3)}$ Ω	± %	COEFFICIENT ± ppm/°C
ROX050	ROX-1/2	2.0	1.4	1.0	2K	1M to 100M	1, 2, 5, 10	50
						1K to 100M	1, 2, 5, 10	100
						1K to 1G	1, 2, 5, 10	200
ROX075	ROX-3/4	3.0	2.16	1.5	5K -	1M to 100M	1, 2, 5, 10	50
						1K to 500M	1, 2, 5, 10	100
						1K to 3G	1, 2, 5, 10	200
						100 to 1M	1, 2, 5, 10	Non-inductive ⁽⁴⁾
ROX100	ROX-1	4.0	2.88	2.0	7.5K -	1M to 100M	1, 2, 5, 10	50
						1K to 500M	1, 2, 5, 10	100
HOXIOO						1K to 3G	1, 2, 5, 10	200
						100 to 1M	1, 2, 5, 10	Non-inductive (4)
ROX150	ROX-1-1/2	5.0	3.6	2.5	11K	1M to 100M	1, 2, 5, 10	50
						1K to 500M	1, 2, 5, 10	100
						1K to 3G	1, 2, 5, 10	200
						100 to 1M	1, 2, 5, 10	Non-inductive (4)
	ROX-2	6.0	4.32	3.0	15K -	1M to 500M	1, 2, 5, 10	50
DOVOO						1K to 1G	1, 2, 5, 10	100
ROX200						1K to 3G	1, 2, 5, 10	200
						100 to 1M	1, 2, 5, 10	Non-inductive (4)
201/202	ROX-3	10.0	7.2	5.0	22.5K	1M to 500M	1, 2, 5, 10	50
						1K to 1G	1, 2, 5, 10	100
ROX300						1K to 3G	1, 2, 5, 10	200
						400 to 10M	1, 2, 5, 10	Non-inductive (4)
						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
						1K to 3G	1, 2, 5, 10	200
ļ						500 to 10M	1, 2, 5, 10	Non-inductive (4)
ROX500	ROX-5	16.0	11.52	8.0	37.5K	1M to 500M	1, 2, 5, 10	50
						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 (4)
ROX600	ROX-6	20.0	14.4	10.0	45K	1M to 500M	1, 2, 5, 10	50
						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 (4)

- Notes

 All resistance values are calibrated at 100 V_{DC}. Calibration at other voltages available.

 ± 1 % not available above 1 GΩ

 Part marking: Print marked Dale, model, value, tolerance, temperature coefficient, date code

 (1) Increase wattage by 40 % for 0.040" (1.02 mm) diameter leads

 (2) Continuous working voltage shall be √P × 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

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

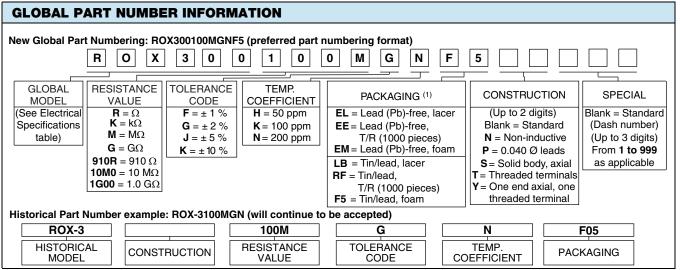
^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

Document Number: 31033 Revision: 19-Nov-10

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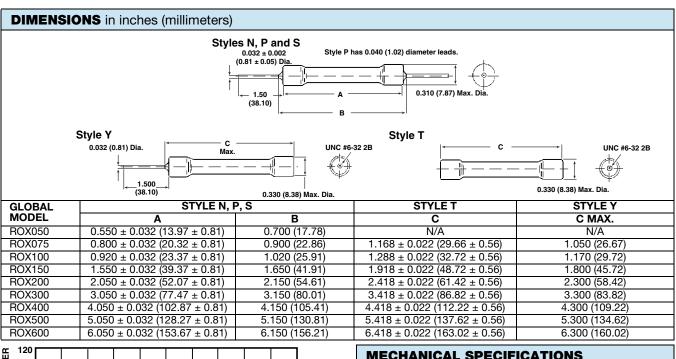
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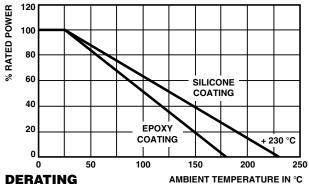




Note

⁽¹⁾ Some packaging codes are model specific.





MECHANICAL SPECIFICATIONS				
Terminal Strength	10 pound pull test			
Solderability	Continuous satisfactory coverage when tested in accordance with MIL-STD-202, Method 208			
MATERIAL SPECIFICATIONS				

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Element	High temperature fired cermet film				
Core	High purity 96 % alumina, tubular or solid				
Coating	Blue flame-retardant epoxy on ROX050 thru ROX200. Black flameproof silicone on ROX300 thru ROX600				
Termination	Standard lead material is solder-coated copper; solderable and weldable. 0.032" (0.813 mm) style P 0.040" (1.02 mm) available				

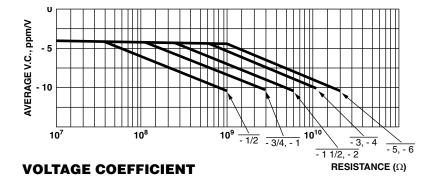
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Revision: 18-Jul-08

Document Number: 91000 www.vishay.com