



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 SEE COMPLIANT

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

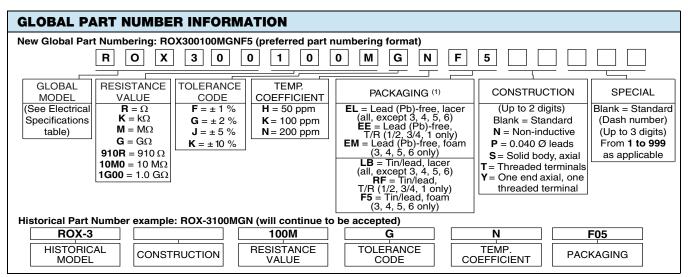
STAND	ADD ELECTR	ICAL CI	PECIFIC	ATIONS				
GLOBAL	HISTORICAL MODEL	POWER RATING			MAXIMUM WORKING	RESISTANCE	TOLERANCE	TEMPERATURE
MODEL		P _{25 °C} ⁽¹⁾ W	<i>P</i> _{70 °C} ⁽¹⁾ W	P _{125 °C} ⁽¹⁾	VOLTAGE (2)	RANGE $^{(3)}$ Ω	± %	COEFFICIENT ± ppm/°C
						1M to 100M	1, 2, 5, 10	50
ROX050	ROX-1/2	2.0	1.4	1.0	2K	1K to 100M	1, 2, 5, 10	100
						1K to 1G	1, 2, 5, 10	200
	ROX-3/4	3.0	2.16	1.5	5K -	1M to 100M	1, 2, 5, 10	50
DOV075						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 (4)
						1M to 100M	1, 2, 5, 10	50
DOV400	DOY 4	4.0	2.88	2.0	7.5K	1K to 500M	1, 2, 5, 10	100
ROX100	ROX-1					1K to 3G	1, 2, 5, 10	200
						100 to 1M	1, 2, 5, 10	Non-inductive (4)
501/150	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
ROX150						1K to 3G	1, 2, 5, 10	200
						100 to 1M	1, 2, 5, 10	Non-inductive (4)
ROX200	ROX-2	6.0	4.32	3.0	15K	1M to 500M	1, 2, 5, 10	50
						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 (4)
ROX300	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
						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
						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.
- All resistance values are calibrated at 100 V_{DC}. Calibration at other voltages available. \pm 1 % not available above 1 G Ω 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. For resistance values above and below those listed please contact us Non-inductive \pm 200 ppm/°C TCR only

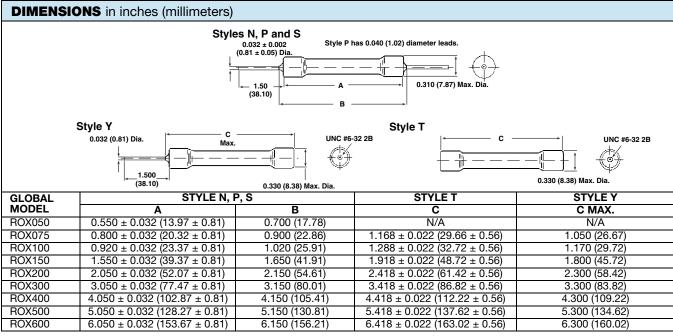
TECHNICAL SPECIFICATIONS										
PARAMETER	UNIT	ROX050	ROX075	ROX100	ROX150	ROX200	ROX300	ROX400	ROX500	ROX600
Insulation Resistance	Ω	≥ 10 ¹¹								
Category Temperature Range	°C	Epoxy coated = - 55/+ 180; Silicone coated = - 55/+ 230								

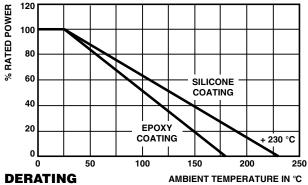




Notes

- (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).





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

MATERIAL SPECIFICATIONS					
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				





www.vishay.com

Vishay Dale





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Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

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