

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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.

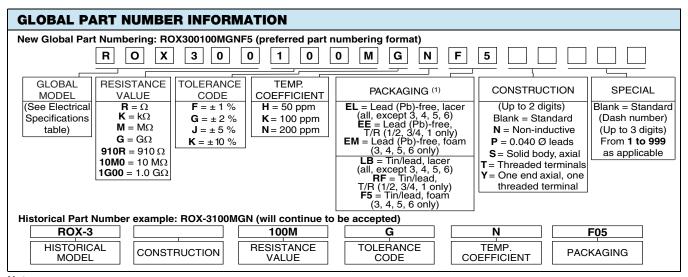
Exemptions may apply.								
STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	HISTORICAL MODEL	P _{25 °C} ⁽¹⁾	P _{70 °C} (1)	P _{125 °C} ⁽¹⁾	MAXIMUM WORKING VOLTAGE ⁽²⁾ V	RESISTANCE RANGE ⁽³⁾ Ω	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C
					-	1M to 100M	1, 2, 5, 10	50
ROX050	ROX-1/2	2.0	1.4	1.0	2K	1K to 100M	1, 2, 5, 10	100
						1K to 1G	1, 2, 5, 10	200
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)
						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	4.0				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
ROX150	ROX-1-1/2	5.0	3.6	2.5	11K	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)
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)
						1M to 500M	1, 2, 5, 10	50
	DOV 0	40.0	7.0	5.0	00 EV	1K to 1G	1, 2, 5, 10	100
ROX300	ROX-3	10.0	7.2	5.0	22.5K	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
DOV 400	DOV 4	40.0	0.04	0.0	0014	1K to 1G	1, 2, 5, 10	100
ROX400	ROX-4	12.0	8.64	6.0	30K	1K to 3G	1, 2, 5, 10	200
						500 to 10M	1, 2, 5, 10	Non-inductive (4)
	ROX-5	16.0	11.52	8.0	37.5K	1M to 500M	1, 2, 5, 10	50
ROX500						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

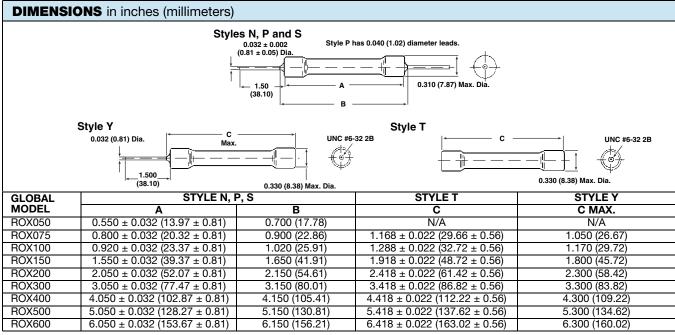
TECHNICAL SPECIFICATIONS										
PARAMETER	UNIT	ROX050	ROX075	ROX100	ROX150	ROX200	ROX300	ROX400	ROX500	ROX600
Insulation Resistance	Ω	≥ 10 ¹¹								
Category Temperature Range	°C	Epoxy coated = - 55/+ 180; Silicone coated = - 55/+ 230								

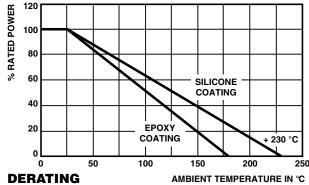




Notes

- (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				

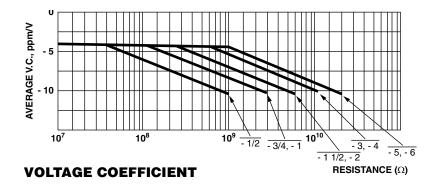
MATERIAL SPECIFICATIONS						
Element	High temperature fired cermet film					
Core	High purity 96 % alumina, tubular or solid					
Coating	Blue flame-retardant epoxy on ROX050 thru ROX200. Black flameproof silicone on ROX300 thru ROX600					
Termination	Standard lead material is solder-coated copper;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





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Vishay Dale





Legal Disclaimer Notice

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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.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

Revision: 02-Oct-12 Document Number: 91000