

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





STANDA	ARD ELECTR	ICAL SE	PECIFIC	ATIONS				
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING			MAXIMUM WORKING	RESISTANÇE	TOLERANCE	TEMPERATURE
		<i>P</i> _{25 °C} ⁽¹⁾ W	P _{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
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)
50000	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
ROX100						1K to 3G	1, 2, 5, 10	200
						100 to 1M	1, 2, 5, 10	Non-inductive (4)
	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)
	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
						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)
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- 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

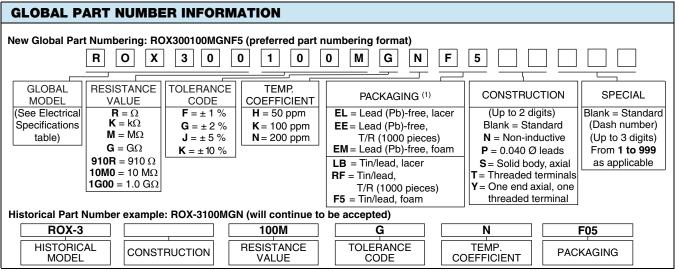
TECHNICAL SPECIFICATIONS										
PARAMETER	UNIT	ROX050	ROX075	ROX100	ROX150	ROX200	ROX300	ROX400	ROX500	ROX600
Insulation Resistance	Ω	≥ 10 ¹¹								
Category Temperature Range	°C	Epoxy coated = - 55/+ 180; Silicone coated = - 55/+ 230								

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

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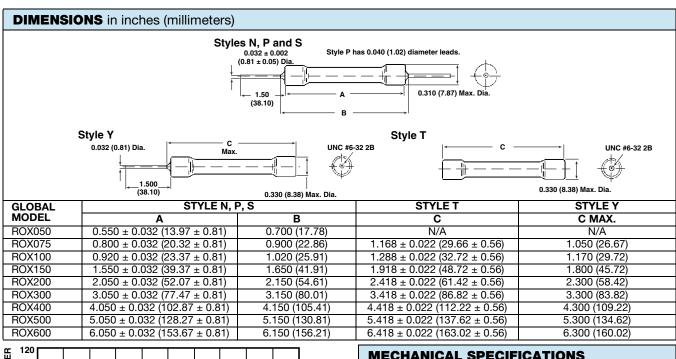
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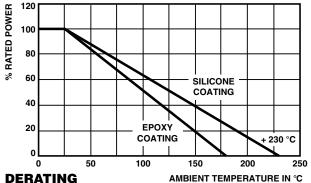




Note

⁽¹⁾ Some packaging codes are model specific.





III—CITALL	UAL U .	ZOII IOATIONO			
Terminal Stre	ngth	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				

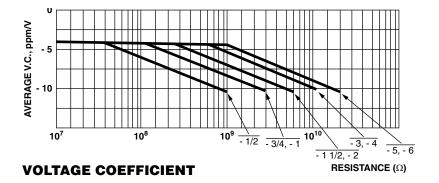
MATERIAL OF LORI IOAT TORIO						
Element	High temperature fired cermet film					
Core	High purity 96 % alumina, tubular or solid					
Coating	Blue flame-retardant epoxy on ROX050 thru ROX200. Black flameproof silicone on ROX300 thru ROX600					
Termination	Standard lead material is solder-coated copper;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





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