

# Metal Oxide Resistors, Special Purpose, High Voltage, Ratio Divider


**FEATURES**

- Higher ranges and different sizes available on request
- TCR:  $\pm 200$  ppm/ $^{\circ}\text{C}$  standard,  $\pm 100$  ppm/ $^{\circ}\text{C}$  available
- Tolerance ratio  $\pm 1\%$
- Available with leads and/or mounting lugs in any required combination

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{125^{\circ}\text{C}}$ W	MAXIMUM WORKING VOLTAGE ( $R_1$ ) <sup>(1)</sup> V	RESISTANCE RANGE $\Omega$		TOLERANCE $\pm\%$	TEMPERATURE COEFFICIENT $\pm$ ppm/ $^{\circ}\text{C}$	MAXIMUM RATIO
				MIN. $R_1$	MAX. $R_2$			
RDX2	RDX-2	4.0	15.0K	2K	2G	1, 2, 5, 10	100, 200	5000:1
RDX3	RDX-3	5.0	22.5K	3K	10G	1, 2, 5, 10	100, 200	10 000:1
RDX4	RDX-4	7.0	30.0K	4K	10G	1, 2, 5, 10	100, 200	10 000:1
RDX5	RDX-5	8.0	37.5K	5K	10G	1, 2, 5, 10	100, 200	10 000:1
RDX6	RDX-6	10.0	45.0K	6K	10G	1, 2, 5, 10	100, 200	10 000:1
RDX7	RDX-7	12.0	52.5K	7K	10G	1, 2, 5, 10	100, 200	10 000:1

**Note**

<sup>(1)</sup> Continuous working voltage shall be  $\sqrt{P \times R}$  or maximum working voltage, whichever is less.

GLOBAL PART NUMBER INFORMATION																		
New Global Part Numbering: RDX3A2M50GNJ03AA (preferred part numbering format)																		
	<b>R</b>	<b>D</b>	<b>X</b>	<b>3</b>	<b>A</b>	<b>2</b>	<b>M</b>	<b>5</b>	<b>0</b>	<b>G</b>	<b>N</b>	<b>J</b>	<b>0</b>	<b>3</b>	<b>A</b>	<b>A</b>		
GLOBAL MODEL	CONSTRUCTION		RESISTANCE VALUE ( $R_1$ )		TOLERANCE CODE		TEMP. COEFFICIENT		PACKAGING		RATIO		SPECIAL					
RDX2 RDX3 RDX4 RDX5 RDX6 RDX7	A = Axial leads B = Radial tabs C = Radial ends, Axial tap		K = k $\Omega$ M = M $\Omega$ G = G $\Omega$ 2K00 = 2.0 k $\Omega$ 100M = 100 M $\Omega$ 10G0 = 10 G $\Omega$		F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$		K = 100 ppm N = 200 ppm		E03 = Lead (Pb)-free, skin J03 = Tin/lead, skin		AA = 10 000:1 AB = 5 000:1 AC = 1000:1 AD = 2000:1 ZZ = Custom		Blank = Standard (Dash number) (Up to 2 digits) From 1 to 99 as applicable					
Historical Part Number: RDX-3A2M50G10000:1M (will continue to be accepted)																		
	<b>RDX-3</b>	<b>A</b>	<b>2M50</b>	<b>G</b>	<b>10 000:1</b>	<b>M</b>	<b>J03</b>											
	HISTORICAL MODEL	CONSTRUCTION	RESISTANCE VALUE	TOLERANCE CODE	RATIO	TEMP. COEFFICIENT	PACKAGING											

<b>DIMENSIONS</b> in inches (millimeters)			
<b>GLOBAL MODEL</b>	<b>ELEMENT CONFIGURATION <sup>(1)</sup></b>	<b>LENGTH MAXIMUM</b>	<b>DIAMETER MAXIMUM</b>
RDX2	ROX100, ROX100	2.620 (66.55)	0.325 (8.26)
RDX3	ROX200, ROX100	3.570 (90.70)	0.325 (8.26)
RDX4	ROX300, ROX100	4.570 (116.10)	0.325 (8.26)
RDX5	ROX400, ROX100	5.570 (141.50)	0.325 (8.26)
RDX6	ROX500, ROX100	6.570 (166.90)	0.325 (8.26)
RDX7	ROX600, ROX100	7.570 (192.30)	0.325 (8.26)

**Note**

<sup>(1)</sup> See ROX for dimensions

<b>MARKING</b>
<ul style="list-style-type: none"> <li>- Dale</li> <li>- Model</li> <li>- Value</li> <li>- Ratio</li> <li>- Date code</li> </ul>



## Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk and agree to fully indemnify and hold Vishay and its distributors harmless from and against any and all claims, liabilities, expenses and damages arising or resulting in connection with such use or sale, including attorneys fees, even if such claim alleges that Vishay or its distributor was negligent regarding the design or manufacture of the part. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

## 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.**