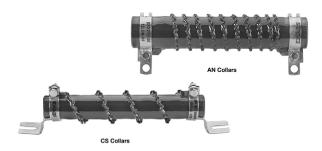


Wirewound Resistor, Industrial High Power, Enamelled Corrugated Tape, Tubular



FEATURES

- 160 W to 1 kW at 25 °C
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

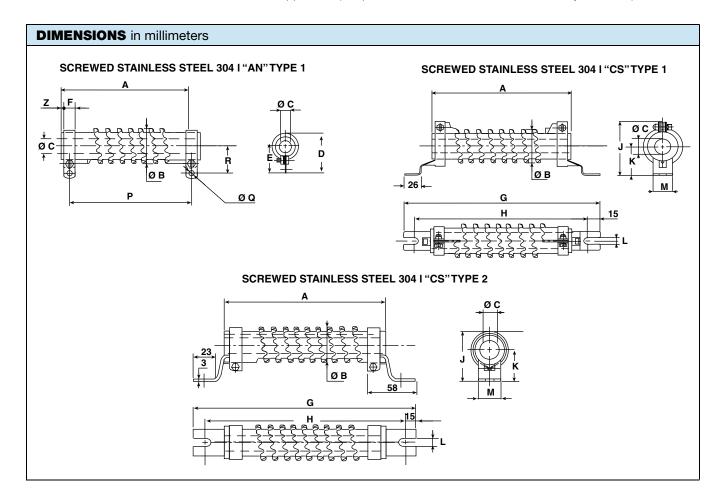


RoHS COMPLIANT

The remarkable dissipation power of this series is the result of an original winding method using corrugated edge-wound tape, thus forming a very active radiator. The enameling follows the contour of the resistive element and provides effective insulation and support for the winding.

The tubular core is of special ceramic, capable of withstanding high thermal shock and overload of short duration.

NF F 16101, 10/1988 and 16102, 04/1992: Not applicable (our parts are made of metallic and refractory materials).





Vishay Sfernice



DIMENSIONS in millimeters											
RSO SERIES	CONNE	CTIONS	A ± 2	Ø B MAX.	Ø C MIN.	D MAX.	E	F + 0.5 + 0	G -4/+0	H -4/+0	J
25 x 138	AN type 1	CS type 1	138	39	12.6	54	33.5 ± 1	9	199	169	50 ± 1.5
25 x 168	AN type 1	CS type 1	168	39	12.6	54	33.5 ± 1	9	229	199	50 ± 1.5
30 x 250	AN type 1	CS type 1	250	44	17.4	62	36 ± 1	13	317	287	60 ± 1.5
40 x 370	AN type 2	CS type 2	370	54.5	22.3	85.5	57 ± 1.5	18	432	405	73.8
50 x 373	AN type 2	CS type 2	373	65	27.1	97	63 ± 1.5	18	432	405	79
RSO SERIES	CONNECTIONS		К	K L + 0.5 M		P	Q	R	Z	AVERAGE UNIT WEIGHT IN g	
SENIES										AN	CS
25 x 138	AN type 1	CS type 1	27 ± 1	6.5	24	117 ± 2	5.7	28.5 ± 1	6	160	205
25 x 168	AN type 1	CS type 1	27 ± 1	6.5	24	147 ± 2	5.7	28.5 ± 1	6	190	235
30 x 250	AN type 1	CS type 1	30 ± 1	9	25	227 ± 2.5	5.7	31 ± 1	5	350	400
40 x 370	AN type 2	CS type 2	45 ± 1.5	9	30	332 ± 3	9.2	45 ± 1.5	10	960	1040
50 x 373	AN type 2	CS type 2	45 ± 1.5	9	30	332 ± 3	9.2	51 ± 1.5	11.5	1375	1455

STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	SIZE	RESISTANCE RANGE Ω	RATED POWER P _{25 °C} W	TOLERANCE ± %			
RSO 25 x 138	25138	0.068 to 12	160	10			
RSO 25 x 168	25168	0.10 to 18	200	10			
RSO 30 x 250	30250	0.22 to 33	350	10			
RSO 40 x 370	40370	0.33 to 56	700	10			
RSO 50 x 373	50373	0.39 to 68	1000	10			

MECHANICAL SPECIFICATIONS					
Mechanical Protection	Enamel				
Resistive Element	Ni-Cr wire				
Connections	AN CS supporting collars				
Average Unit Weight	160 g to 1455 g				

Resistance Range	0.068 Ω to 68 Ω (E12 preferred series)
Standard Resistance Tolerance	$R_{\rm n} \ge 1 \ \Omega \pm 5 \ \%$ $R_{\rm n} < 1 \ \Omega \pm 10 \ \%$
Power Rating	160 W to 1 kW at 25 °C
1 ower rialing	100 W to 1 KW at 25

TECHNICAL SPECIFICATIONS

ENVIRONMENTAL SPECIFICATIONS					
Temperature Range	-55 °C, +450 °C				
Climatic Category	-55 °C / +200 °C / 56 days				

PERFORMANCE						
TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES AND DRIFTS			
Short Time Overload	10 P _r during 5 s	2 % or 0.05 Ω	1 %			
Thermal Shock	Load at P_r followed by cold temp. exposure at -55 °C / 15 s	2 % or 0.05 Ω	1 %			
Climatic Sequence	Phase A: +200° Phase C: -55° Phase D: 5 cycles	3 % or 0.05 Ω	1 %			
Load Life	90' / 30' cycle 1000 h at <i>P</i> _r 25 °C	5 %	2 %			

RECOMMENDATIONS FOR USE

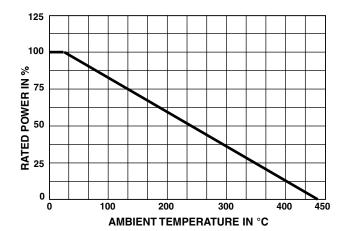
OVERLOAD:

The RSO resistors are capable of withstanding overloads of about 10 P_r for a maximum period of 5 s; they can resist momentarily even greater overloads.

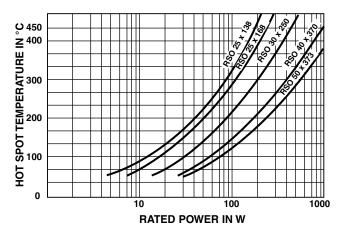
Particular requirements should be submitted to Vishay Sfernice.



POWER RATING



TEMPERATURE RISE



MARKING

Vishay Sfernice trademark, model, style, nominal resistance (in Ω), tolerance (in %), manufacturing date.

PACKAGING

Box: Fixed quantity depending on size and collars

ORDERING	G INFORMA	TION					
RSO	25 x 168	XXX	cs	U82	± 10 %	B02NA	е
MODEL	STYLE	SPECIAL DESIGN	CONNECTIONS	OHMIC VALUE	TOLERANCE	PACKAGING	LEAD (Pb)-FREE
		Method N° Optional		Custom items are subject to extra-charge and min. order. Please see price list.			

SAP PART NUMBERING GUIDELINES								
RSO	25168	С	R820	K	Ν			
MODEL	STYLE	CONNECTIONS	OHMIC VALUE	TOLERANCE	PACKAGING			

RELATED DOCUMENTS					
APPLICATION NOTES					
Packaging Information	www.vishay.com/doc?50033				
Accessories	www.vishay.com/doc?50021				



Legal Disclaimer Notice

Vishay

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. 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.

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for vishay manufacturer:

Other Similar products are found below:

M39006/22-0577H Y00892K49000BR13L M8340109M6801GGD03 NTCALUG01A103F291L ITU1341SM3 VS-MBRB1545CTPBF

1KAB100E 1KAB20E IH10EB600K12 CP0005150R0JE1490 562R5GAD47RR S472M69Z5UR84K0R MKP1848C65090JY5L

CRCW1210360RFKEA VSMF4720-GS08 TSOP34438SS1V CRCW04024021FRT7 001789X LTO050FR0500JTE3

CRCW08054K00FKTA LVR10R0200FE03 CRCW12063K30FKEAHP 009923A CRCW2010331JR02 CRCW25128K06FKEG

CS6600552K000B8768 CSC07A0110K0GPA M34C156K100BZSS M39003/01-2289 M39003/01-2784 M39006/25-0133 M39006/25-0228

M64W101KB40 M64Z501KB40 CW001R5000JS73 CW0055R000JE12 CW0056K800JB12 CW0106K000JE73 672D826H075EK5C

CWR06JC105KC CWR06NC475JC MAL219699001E3 MCRL007035R00JHB00 GBU4K-E3/51 GBU8M-E3/51 GF1A-E3/67A

PTF56100K00QYEK PTN0805H1502BBTR1K RCWL1210R130JNEA RH005220R0FE02