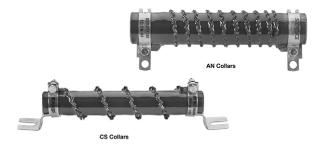


Vishay Sfernice

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 <u>www.vishay.com/doc?99912</u>



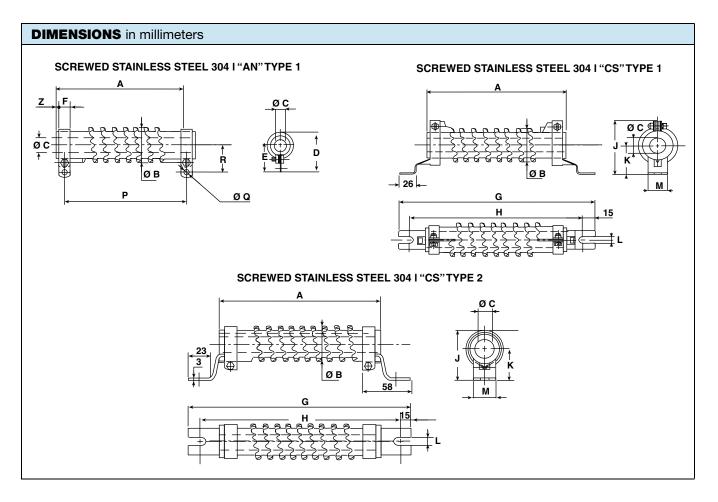
RSC

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).



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RSO

DIMENSIONS in millimeters											
RSO SERIES	CONNE	CTIONS	A ± 2	Ø B MAX.	Ø C MIN.	D MAX.	Е	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	L + 0.5	L + 0.5 M ± 0.5		Q	R	z	AVERAGE UNIT WEIGHT IN g	
0ETTE0										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	$\begin{array}{c} \text{RESISTANCE RANGE} \\ \Omega \end{array}$	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					
Enamel					
Ni-Cr wire					
AN CS supporting collars					
160 g to 1455 g					

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

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

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 <i>P</i> _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 Pr for a maximum period of 5 s; they can resist momentarily even greater overloads.

Particular requirements should be submitted to Vishay Sfernice.

Revision: 16-Mar-16

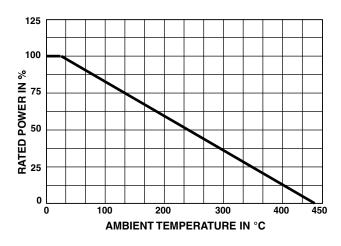
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RSO

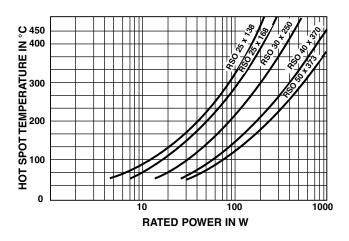


Vishay Sfernice

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 INFORMATION								
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	к	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				

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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.

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