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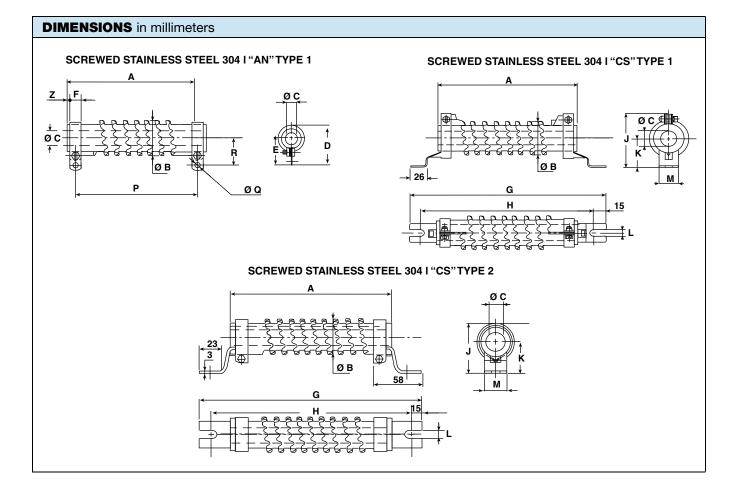
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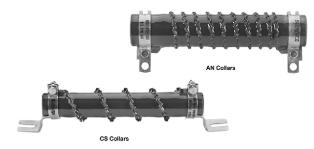
Fixed Wirewound Enamelled Corrugated Tape Resistors Very High Dissipation

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 enamelling 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).





FEATURES

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

(Pb) RoHS

COMPLIANT

RSO



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RSO

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	L + 0.5 M ±	M ± 0.5	M ± 0.5 P	Q	R	z	AVERAGE UNIT WEIGHT IN g	
OLINEO										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						
Mechanical Protection Enamel						
Resistive Element	Ni-Cr wire					
Connections	AN CS supporting collars					
Average Unit Weight	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 <i>P</i> _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.

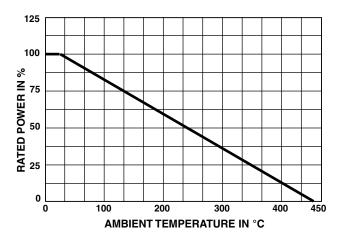
For technical questions, contact: <u>sferfixedresistors@vishay.com</u> THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT <u>www.vishay.com/doc?91000</u>

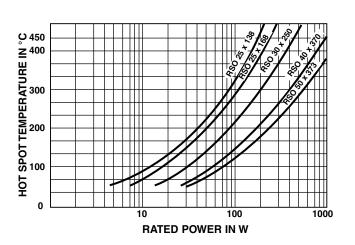
RSO



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

ORDERIN	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			



Vishay

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