





Fixed Wirewound Enamelled Corrugated Tape Resistors Very High Dissipation

AN Collars

CS Collars

FEATURES

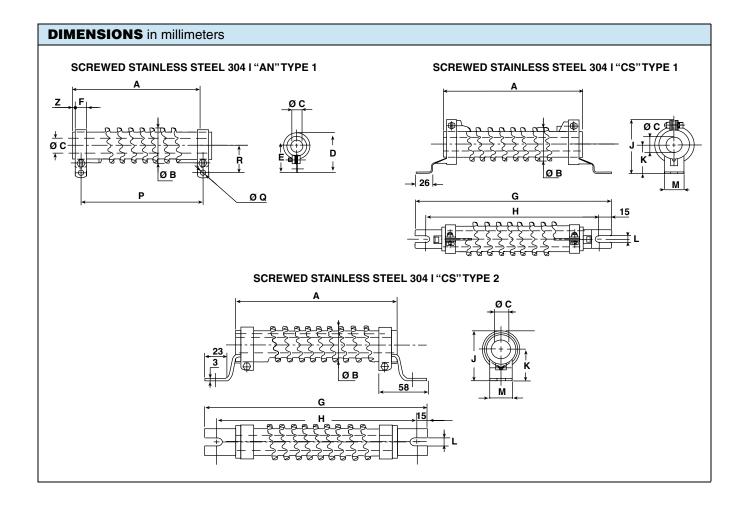
- 160 W to 1 kW at 25 °C
- Compliant to RoHS directive 2002/95/EC



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).



Vishay Sfernice

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DIMENSIONS in millimeters											
RSO SERIES	CONNECTIONS		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 ± 0.5	Р	Q	R	Z	AVERAGE UNIT WEIGHT IN g	
SEITIES										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

MECHANICAL SPECIFICATIONS

Mechanical ProtectionEnamelResistive ElementNi-Cr wire

Connections AN CS supporting collars

Average Unit Weight 160 to 1455 g

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits $-55 \,^{\circ}\text{C} + 450 \,^{\circ}\text{C}$ Climatic Category $-55 \,^{\circ}\text{C} / + 200 \,^{\circ}\text{C} / 56 \,^{\circ}\text{days}$

ELECTRICAL 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					
Temperature Coefficient	180 ppm/°C (typical)					

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 P _r 25 °C	5 %	2 %				

SPECIAL FEATURES								
RSO STYLE	25 x 138	25 x 168	30 x 250	40 x 370	50 x 373			
Power Rating at 25 °C	160 W	200 W	350 W	700 W	1000 W			
Resistance Ohmic Range (E12 Series)	0.068 Ω 12 Ω	0.10 Ω 18 Ω	0.22 Ω 33 Ω	0.33 Ω 56 Ω	0.39 Ω 68 Ω			

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.

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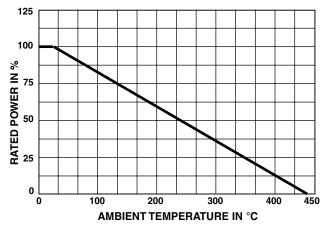




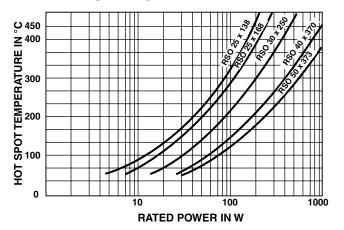
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POWER RATING



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	Κ	N				
MODEL	STYLE	CONNECTIONS	OHMIC VALUE	TOLERANCE	PACKAGING				





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