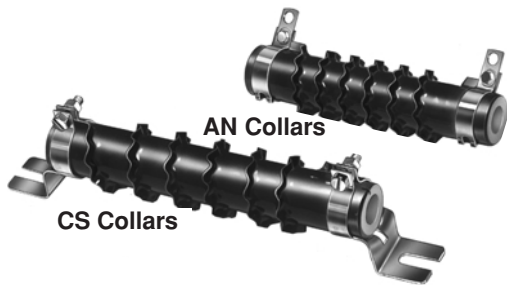


Fixed Wirewound Enamelled Corrugated Tape Resistors Very High Dissipation



FEATURES

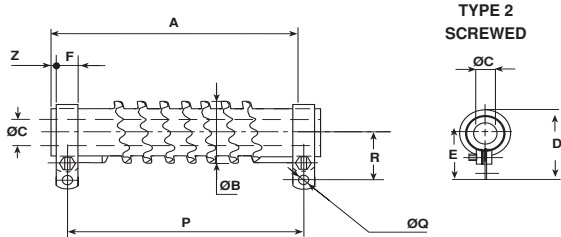
- 160 Watt to 1kW at 25°C

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.

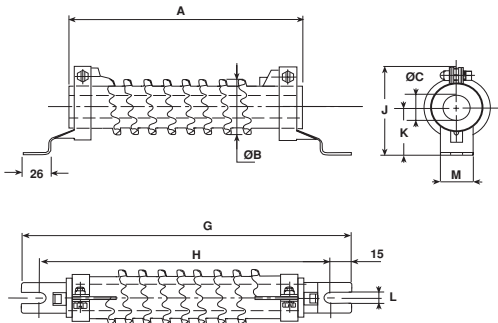
The tubular core is of special ceramic, capable of withstanding high thermal shock and overload of short duration.

DIMENSIONS

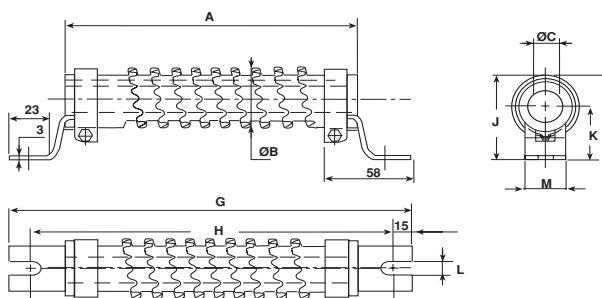
SCREWED STAINLESS STEEL 304 L “AN” TYPE 1



SCREWED STAINLESS STEEL 304 L “CS” TYPE 1



SCREWED STAINLESS STEEL 304 L “CS” TYPE 2



DIMENSIONS in millimeters

RSO STYLE	25 x 138	25 x 168	30 x 250	40 x 370	50 x 373	
Connections	AN type 1	AN type 1	AN type 1	AN type 2	AN type 2	
	CS type 1	CS type 1	CS type 1	CS type 2	CS type 2	
A ± 2	138	168	250	370	373	
Ø B max.	39	39	44	54.5	65	
Ø C min.	12.6	12.6	17.4	22.3	27.1	
D max.	54	54	62	85.8	97	
E	33.5 ± 1	33.5 ± 1	36 ± 1	57 ± 1.5	63 ± 1.5	
F +0.5 / +0	9	9	13	18	18	
Z	6	6	5	10	11.5	
G -4 / -0	199	229	317	432	432	
H -4 / -0	169	199	287	405	405	
J	50 ± 1.5	50 ± 1.5	60 ± 1.5	73.8	79	
K	27 ± 1	27 ± 1	30 ± 1	45 ± 1.5	45 ± 1.5	
L ± 0.5	6.5	6.5	9	9	9	
M ± 0.5	24	24	25	30	30	
P	117 ± 2	147 ± 2	227 ± 2.5	332 ± 3	332 ± 3	
Q	5.7	5.7	5.7	9.2	9.2	
R	28.5 ± 1	28.5 ± 1	31 ± 1	45 ± 1.5	51 ± 1.5	
Average weight in g	AN	160	190	350	960	1375
	CS	205	235	400	1040	1455



Fixed Wirewound Enamelled Corrugated Tape Resistors Vishay Sfernice Very High Dissipation

MECHANICAL SPECIFICATIONS

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

ELECTRICAL SPECIFICATIONS

Resistance Range	0.068Ω to 68MΩ (E12-E24 preferred series)
Standard Resistance Tolerance	Rn ≥ 1Ω ± 5% Rn < 1Ω ± 10%
Power Rating	160 W to 1kW at 25°C
Temperature Coefficient	180ppm/°C Typical

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits	- 55°C + 450°C
Climatic Category	- 55°C/+ 200°C/56 days

PERFORMANCE

TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES AND DRIFTS
Short Time Overload	10Pr during 5s	2% or 0.05Ω	1%
Thermal Shock	Load at Pr followed by cold temp. exposure at - 55°C/15 sec	2% or 0.05Ω	1%
Climatic Sequence	Phase A: + 200° Phase C: - 55° Phase D: 5 cycles	3% or 0.05Ω	1%
Load Life	90/30' cycle 1000h at Pr 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	160W	200W	350W	700W	1000W
Resistance Ohmic Range (E12, E24 Series)	0.068Ω 12Ω	0.10Ω 18Ω	0.22Ω 33Ω	0.33Ω 56Ω	0.39Ω 68Ω

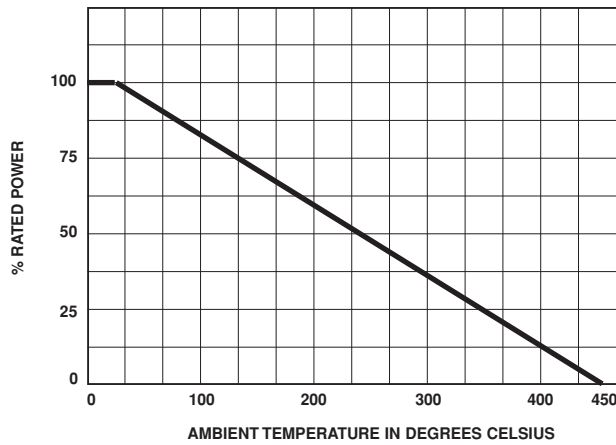
RECOMMENDATIONS FOR USE**OVERLOAD:**

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

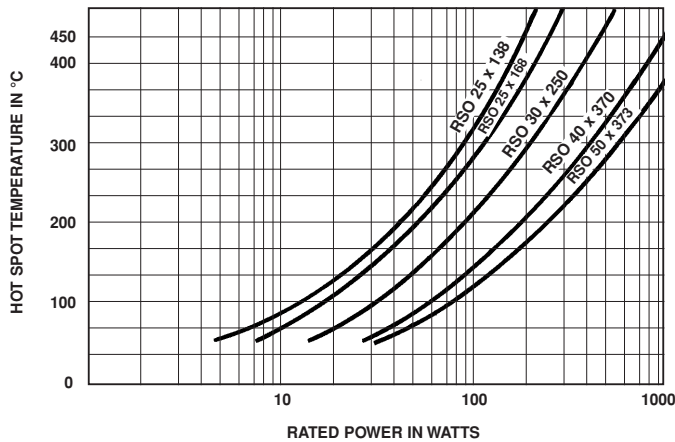
The following table shows the admissible load K x Pr in Watts.

CYCLE PERIOD (LOAD + BREAK)	15s	30s	60s	120s	K
Overload period in seconds	2	4	7	9	6
	2.5	5	9	12	5
	3	6	12	15	4
	4	8	16	23	3
	5	10	20	30	2

POWER RATING CHART



TEMPERATURE RISE



MARKING

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

ORDERING INFORMATION

RSO	25 x 168		CS	0.3 Ω	$\pm 10\%$
MODEL	STYLE	SPECIAL DESIGN	CONNECTIONS	OHMIC VALUE	TOLERANCE
		Method N ^o Optional		Custom items are subject to extra-charge and min. order. Please see price list.	