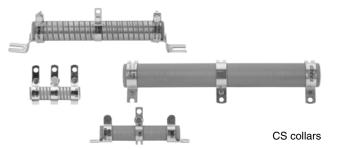
RSSD

Vishay Sfernice

Adjustable Wirewound Vitreous Resistors Low Ohmic Values (0.10 Ω available)

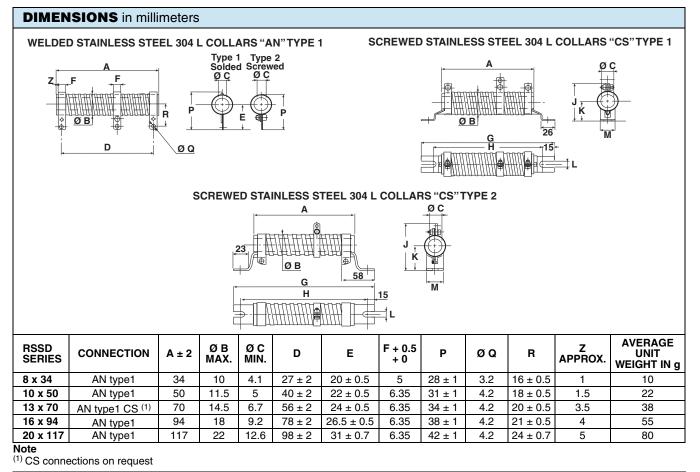


FEATURES

- High power rating: 16 W to 600 W at 25 °C
- Heavy overloads 10 P_n 15 s ≤ 1 %
- Low ohmic values 0.10 Ω available
- High long term stability drift < 1.5 % after 1000 h
- Excellent withstanding of thermal shock
- Mechanical strength
- · Fire proof
- Compliant to RoHS Directive 2002/95/EC

RSSD medium and high power resistors are noted for their ability to withstand heavy transient and severe shock and vibration conditions. They complement the ohmic range of Vishay styles RW, RWST and RA in the low value area, and can be tapped by means of adjustable collars. Standard RSSD resistors have a single adjustable collar.

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



DIMEN	DIMENSIONS in millimeters											
RSSD SERIES	CONNE	CTIONS	A ± 2	ØB MAX.	Ø C MIN.	D	E	F + 0.5 + 0	G - 4 - 0	H - 4 - 0	J	
25 x 138	AN type1	CS type1	138	27	16.4	117 ± 2	33.5 ± 1	9	199	169	50 ± 1.5	
25 x 168	AN type1	CS type1	168	27	16.4	147 ± 2	33.5 ± 1	9	229	199	50 ± 1.5	
30 x 250	AN type1	CS type1	250	32	21.3	227 ± 2.5	36 ± 1	13	317	287	60 ± 1.5	
40 x 370	AN type2	CS type2	370	43	22.3	332 ± 3	57 ± 1.5	18	432	405	69 max.	
50 x 373	AN type2	CS type2	373	53	27.1	332 ± 3	63 ± 1.5	18	432	405	80 max.	

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RoHS

COMPLIANT

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Vishay Sfernice

Adjustable Wirewound Vitreous Resistors Low Ohmic Values (0.10 Ω available)



DIMEN	DIMENSIONS in millimeters											
RSSD SERIES	CONNECTIONS		к	L ± 0.5	M ± 0.5	Ρ	ØQ	R	Z APPROX.	AVERAGE UNIT WEIGHT IN g		
SERIES									AFFIOA.	AN	CS	
25 x 138	AN type1	CS type1	27 ± 1	6.5	24	51 ± 1.5	5.7	28.5 ± 1	6	90	135	
25 x 168	AN type1	CS type1	27 ± 1	6.5	24	51 ± 1.5	5.7	28.5 ± 1	6	115	160	
30 x 250	AN type1	CS type1	30 ± 1	9	25	55 ± 1.5	5.7	31± 1	5	240	290	
40 x 370	AN type2	CS type2	45 ± 1	9	30	81.5 max.	9.2	45 ± 1.5	10	845	925	
50 x 373	AN type2	CS type2	51 ± 1.5	9	30	92.5 max.	9.2	51 ± 1.5	11.5	1270	1350	

MECHANICAL SPECIFICATIONS

Mechanical Protection Resistive Element	Vishay Sfernice special cement Nickel alloy wire
Connections	AN collars CS supporting collars
Average Unit Weight	10 g to 1350 g

ENVIRONMENTAL SPECIFICATIONS

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

ELECTRICAL SPECIFICATIONS							
Resistance Range	0.12 Ω to 560 Ω (E12 series)						
Standard Resistance	$R \ge 10 \ \Omega \pm 5 \%$						
Tolerance	$1 \Omega \le R \le 10 \Omega \pm 10 \%$ 0.1 $\Omega \le R < 1 \Omega \pm 20 \%$						
Power Rating	14 W to 600 W at 25 °C						
Temperature Coefficient	+ 75 ppm/°C (typical)						

PERFORMANCE								
TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES AND DRIFTS					
Short Time Overload	10 <i>P</i> _r during 5 s	2 %	1 %					
Climatic Sequence	- 55 °C + 200 °C 5 cycles	3 %	1 %					
Thermal Shock	Load at 100 % <i>P</i> r followed by cold - 55 °C/15	2 % or 0.05 Ω	1 %					
Load Life	90/30 cycle 1000 h at <i>P</i> _r at + 25 °C	5 %	1.5 %					

SPECIAL FEATURES											
RSSD TYPE		8 x 34	10 x 50	13 x 70	16 x 94	20 x 117	25 x 138	25 x 168	30 x 250	40 x 370	50 x 373
Power Rating	Continuous	16 W	25 W	42 W	70 W	100 W	140 W	200 W	280 W	450 W	600 W
at 25 °C	Reduced	14 W	22 W	38 W	62 W	90 W	125 W	170 W	240 W	360 W	450 W
Resistance Ohmic Range (E12, E24 Series) with 1 Tapping		0.12 Ω 10 Ω	0.12 Ω 22 Ω	0.12 Ω 43 Ω	0.33 Ω 75 Ω	0.22 Ω 100 Ω	0.10 Ω 150 Ω	0.12 Ω 220 Ω	0.22 Ω 360 Ω	0.47 Ω 470 Ω	0.68 Ω 560 Ω
Maximum Number of Additional Tapping		0	1	1	1	1	1	2	2	4	4
Reduction % of Ohmic Value by Tapping		23	21	14	11	10	8	6.5	6	5.7	5.7

ADDITIONAL TAPPINGS

Are supplied with their adjustable collars fastened but not set to any specific value. Please note that, on request, all tappings can be adjusted by Vishay Sfernice. For adjustment purposes we would need to be advised of the ohmic values, and tolerances of the sections in successive order in addition to their sum R_n .

The permissible maximum value for an adjustment should take into account the possible negative tolerance of R_n . Please consult Vishay Sfernice regarding the acceptable tolerance.

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Adjustable Wirewound Vitreous Resistors

Vishay Sfernice

Low Ohmic Values (0.10 Ω available)

RECOMMENDATIONS FOR USE

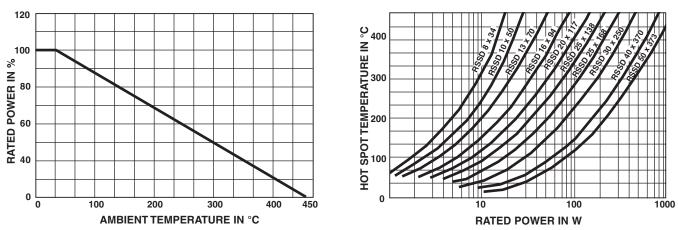
Maximum Current Strength:

The ohmic value and the power decrease as the connections are brought together. To avoid overload, the maximum current strength that is permissible for R_n should never be exceeded:

TEMPERATURE RISE

$$I_{\rm max.} = \sqrt{P_{\rm r}/R_{\rm m}}$$

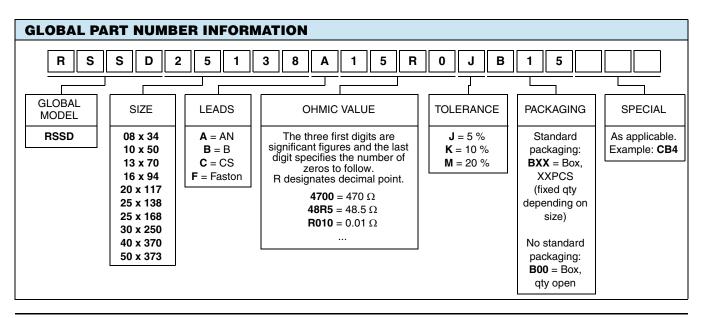
POWER RATING



MARKING

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

ORDERING INFORMATION											
RSSD	10 × 50		AN	10U	5 %	BA25	е				
MODEL	STYLE	SPECIAL DESIGN	CONNECTIONS	OHMIC VALUE	TOLERANCE	PACKAGING	LEAD (Pb)-FREE				
		Method N ^o		Custom items are subject to extra-charge and			. ,				
		Optional		min. order. Please see price list.							



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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.