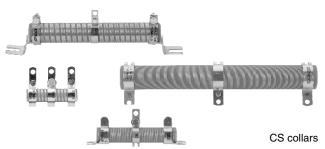
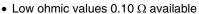


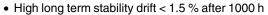
Adjustable Wirewound Vitreous Resistors Low Ohmic Values (0.10 Ω available)



FEATURES

- High power rating: 16 W to 600 W at 25 °C
- Heavy overloads 10 P_n 15 s \leq 1 %





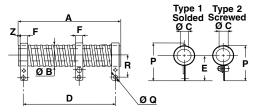
- Excellent withstanding of thermal shock
- · Mechanical strength
- · Fire proof
- Compliant to RoHS Directive 2002/95/EC

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.

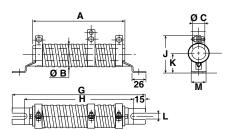
NF F 16101, 10/1988 and 16102, 04/1992: Not applicable (our parts are made of metallic and refractory materials).

DIMENSIONS in millimeters

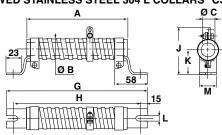
WELDED STAINLESS STEEL 304 L COLLARS "AN" TYPE 1



SCREWED STAINLESS STEEL 304 L COLLARS "CS" TYPE 1



SCREWED STAINLESS STEEL 304 L COLLARS "CS" TYPE 2



RSSD SERIES	CONNECTION	A ± 2	Ø B MAX.	Ø C MIN.	D	E	F + 0.5 + 0	Р	ØQ	R	Z APPROX.	AVERAGE UNIT WEIGHT IN g
8 x 34	AN type1	34	10	4.1	27 ± 2	20 ± 0.5	5	28 ± 1	3.2	16 ± 0.5	1	10
10 x 50	AN type1	50	11.5	5	40 ± 2	22 ± 0.5	6.35	31 ± 1	4.2	18 ± 0.5	1.5	22
13 x 70	AN type1	70	14.5	6.7	56 ± 2	24 ± 0.5	6.35	34 ± 1	4.2	20 ± 0.5	3.5	38
16 x 94	AN type1 CS (1)	94	18	9.2	78 ± 2	26.5 ± 0.5	6.35	38 ± 1	4.2	21 ± 0.5	4	55
20 x 117	AN type1	117	22	12.6	98 ± 2	31 ± 0.7	6.35	42 ± 1	4.2	24 ± 0.7	5	80

Note

(1) CS connections on request

DIMENSIONS in millimeters												
RSSD SERIES	CONNECTIONS		A ± 2	Ø B 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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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	Р	ØQ	R	Z APPROX.	AVERAGE UNIT WEIGHT IN g			
										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 Vishay Sfernice Special cement

Resistive Element Nickel alloy wire Connections AN collars

CS supporting collars

Average Unit Weight 10 g to 1350 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	0.12 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 P _r during 5 s	2 %	1 %						
Climatic Sequence	- 55 °C + 200 °C 5 cycles	3 %	1 %						
Thermal Shock	Load at 100 % P _r followed by cold - 55 °C/15	2 % or 0.05 Ω	1 %						
Load Life	90/30 cycle 1000 h at P _r at + 25 °C	5 %	1.5 %						

SPECIAL FE	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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Vishay Sfernice

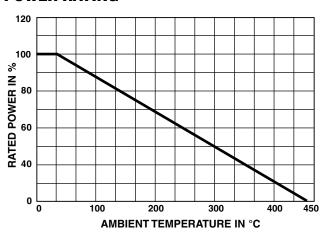
RECOMMENDATIONS FOR USE

Maximum Current Strength:

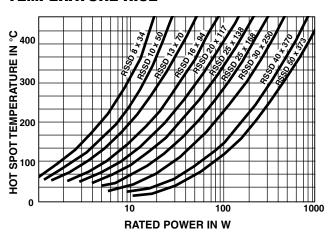
The ohmic value and the power decrease as the connections are brought together. To avoid overload, the maximum current strength that is permissible for R_n should never be exceeded:

$$I_{\text{max.}} = \sqrt{P_{\text{r}}/R_{\text{n}}}$$

POWER RATING



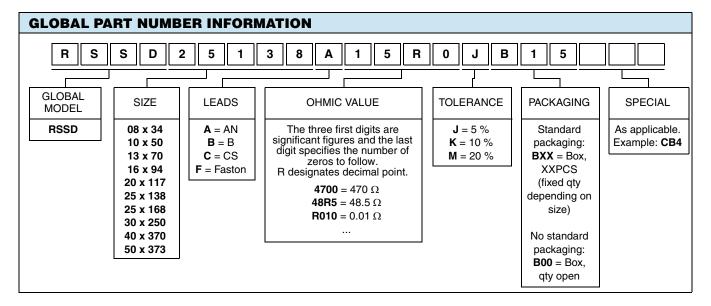
TEMPERATURE RISE



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 No Optional		Custom items are subject to extra-charge and min. order. Please see price list.			,					



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