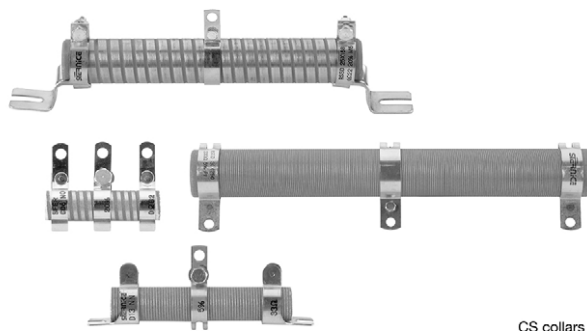


Wirewound Resistor, Industrial High Power, Vitreous Tubular, Adjustable, Low Values 0.12 Ω to 560 Ω



FEATURES

- High power rating: 16 W to 600 W at 25 °C
- Heavy overloads 10 P_n 5 s $\leq$ 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
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

DESIGN SUPPORT TOOLS

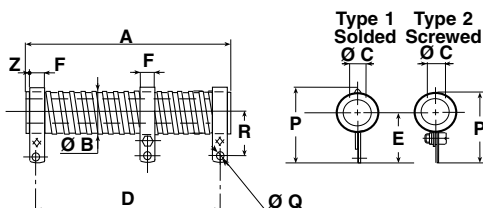
[click logo to get started](#)
3D
Models
Available

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.

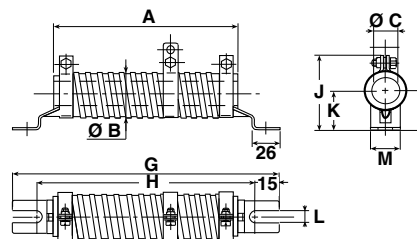
NF F 16101, 10/1988 and 16102, 04/1992: Not applicable (our parts are made of metallic and refractory materials).

DIMENSIONS in millimeters

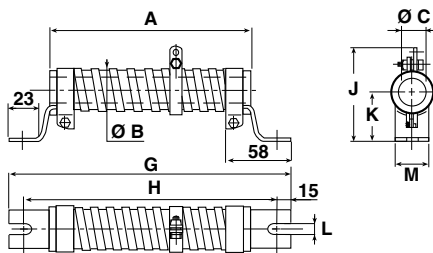
WELDED STAINLESS STEEL 304 L COLLARS "AN" TYPE 1



SCREWED STAINLESS STEEL 304 L COLLARS "CS" TYPE 1



SCREWED STAINLESS STEEL 304 L COLLARS "CS" TYPE 2



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

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	SIZE	RESISTANCE RANGE Ω	RATED POWER $P_{25^{\circ}\text{C}}$ W	TOLERANCE ± %
RSSD 8 x 34	0834	0.12 to 10	16	5, 10, 20
RSSD 10 x 50	1050	0.12 to 22	25	5, 10, 20
RSSD 13 x 70	1370	0.12 to 43	42	5, 10, 20
RSSD 16 x 94	1694	0.33 to 75	70	5, 10, 20
RSSD 20 x 117	20117	0.22 to 100	100	5, 10, 20
RSSD 25 x 138	25138	0.10 to 150	140	5, 10, 20
RSSD 25 x 168	25168	0.12 to 220	200	5, 10, 20
RSSD 30 x 250	30250	0.22 to 360	280	5, 10, 20
RSSD 40 x 370	40370	0.47 to 470	450	5, 10, 20
RSSD 50 x 373	50373	0.68 to 560	600	5, 10, 20

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

TECHNICAL SPECIFICATIONS

Resistance Range	0.12 Ω to 560 Ω (E12 series)
Standard Tolerance	$R \geq 10 \Omega \pm 5\%$ ⁽¹⁾ $1 \Omega \leq R < 10 \Omega \pm 10\%$ $0.1 \Omega \leq R < 1 \Omega \pm 20\%$
Power Rating	14 W to 600 W at 25 °C

Note⁽¹⁾ 10 % for RSSD 8 x 34 only**ENVIRONMENTAL SPECIFICATIONS**

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

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 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 at 25 °C	Continuous	16 W	25 W	42 W	70 W	100 W	140 W	200 W	280 W	450 W	600 W
	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 tapings 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 .

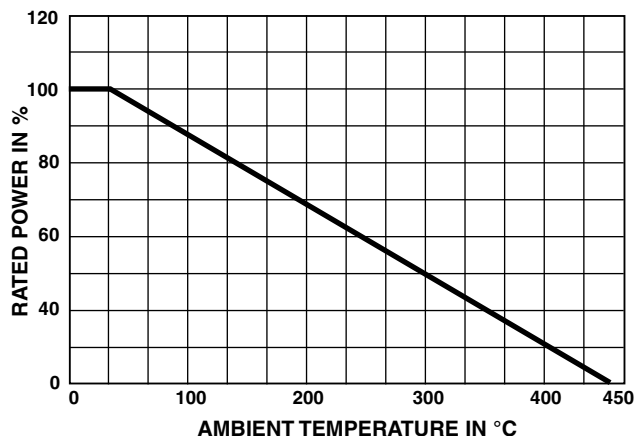
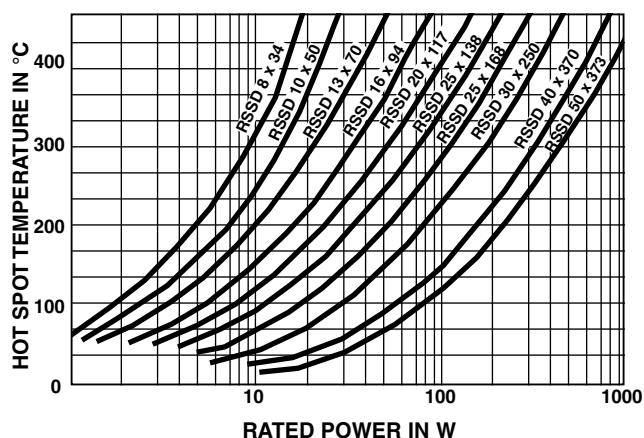
The permissible maximum value for an adjustment should take into account the possible negative tolerance of R_n .

Please consult Vishay Sfernice regarding the acceptable tolerance.

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:

$$I_{\max.} = \sqrt{P_r / R_n}$$

POWER RATING**TEMPERATURE RISE****MARKING**

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

ORDERING INFORMATION

ORDERING INFORMATION							
RSSD	10 x 50		AN	10U	5 %	BA25	e
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.			



GLOBAL PART NUMBER INFORMATION

R	S	S	D	2	5	1	3	8	A	1	5	R	0	J	B	1	5			
GLOBAL MODEL		SIZE		LEADS		OHMIC VALUE					TOLERANCE		PACKAGING		SPECIAL					
RSSD		08 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		A = AN B = B C = CS F = faston		The three first digits are significant figures and the last digit specifies the number of zeros to follow. R designates decimal point. 4700 = 470 Ω 48R5 = 48.5 Ω R010 = 0.01 Ω ...					J = 5 % K = 10 % M = 20 %		Standard packaging: BXX = box, XXPCS (fixed qty depending on size) No standard packaging: B00 = box, qty open		As applicable. Example: CB4					

RELATED DOCUMENTS

APPLICATION NOTES

Packaging Information

www.vishay.com/doc?50033

Accessories

www.vishay.com/doc?50021



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