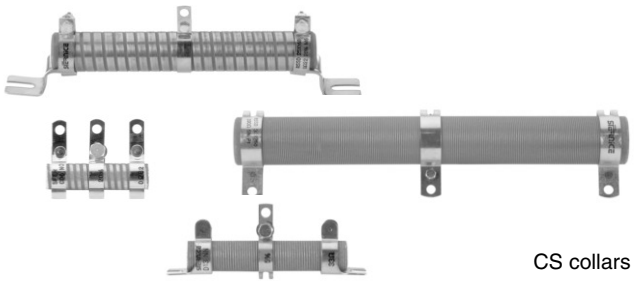
Adjustable Wirewound Vitreous Resistors Low Ohmic Values (0.10 Ω available)



CS collars

FEATURES

- High power rating: 16 W to 600 W at 25 °C
- Heavy overloads 10 Pn 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

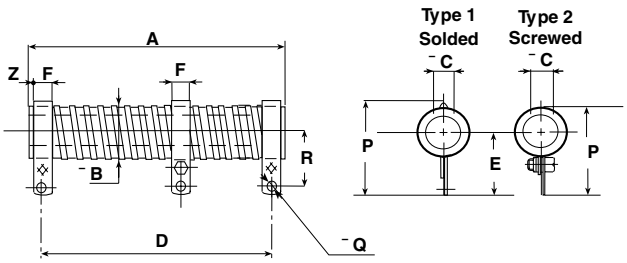
Pb-free

RoHS COMPLIANT

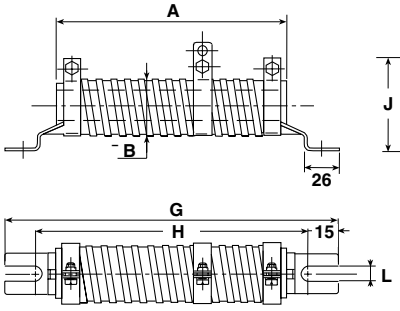
RSSD medium and high power resistors are noted for their ability to withstand heavy transient and severe shock and vibration conditions. They complement the ohmic range of Vishay styles RW, RWST and RA in the low value area, and can be tapped by means of adjustable collars. Standard RSSD resistors have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

DIMENSIONS

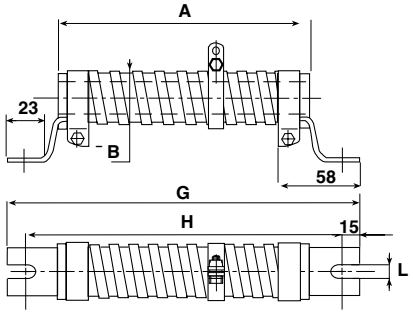
WELDED STAINLESS STEEL 304 L COLLARS "AN" TYPE 1



SCREWED STAINLESS STEEL 304 L COLLARS "CS" TYPE 1



SCREWED STAINLESS STEEL 304 L COLLARS "CS" TYPE 2



DIMENSIONS in millimeters					
RSSD STYLE	**8 × 34**	**10 × 50**	**13 × 70**	**16 × 94**	**20 × 117**
Connection	AN type 1	AN type 1	AN type 1 CS*	AN type 1	AN type 1
A ± 2	34	50	70	94	117
Ø B max.	10	11.5	14.5	18	22
Ø C min.	4.1	5	6.7	9.2	12.6
D	27 ± 2	40 ± 2	56 ± 2	78 ± 2	98 ± 2
E	20 ± 05	22 ± 0.5	24 ± 0.5	26.5 ± 0.5	31 ± 0.7
F + 0.5 + 0	5	6.35	6.35	6.35	6.35
P	28 ± 1	31 ± 1	34 ± 1	38 ± 1	42 ± 1
Ø Q	3.2	4.2	4.2	4.2	4.2
R	16 ± 0.5	18 ± 0.5	20 ± 0.5	21 ± 0.5	24 ± 0.7
Z approx.	1	1.5	3.5	4	5
Average unit AN weight in g	10	22	38	55	80

* CS connections on request

DIMENSIONS in millimeters					
RSSD STYLE	**25 × 138**	**25 × 168**	**30 × 250**	**40 × 370**	**50 × 373**
Connection	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.	27	27	32	43	53
Ø C min.	16.4	16.4	21.3	22.3	27.1
D	117 ± 2	147 ± 2	227 ± 2.5	332 ± 3	332 ± 3
E	33.5 ± 1	33.5 ± 1	36 ± 1	57 ± 1.5	63 ± 1.5
F + 0.5 + 0	9	9	13	18	18
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	69 max.	80 max.
K	27 ± 1	27 ± 1	30 ± 1	45 ± 1	51 ± 1.5
L ± 0.5	6.5	6.5	9	9	9
M ± 0.5	24	24	25	30	30
P	51 ± 1.5	51 ± 1.5	55 ± 1.5	81.5 max.	92.5 max.
Ø 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
Z approx.	6	6	5	10	11.5
Average unit weight in g AN	90	115	240	845	1270
Average unit weight in g CS	135	160	290	925	1350

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

MECHANICAL SPECIFICATIONS

Mechanical Protection	Vishay Sfernice Special cement
Resistive Element	nickel alloy wire
Connections	AN collars CS supporting collars
Average Unit Weight	10 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 ≥ 10 Ω ± 5 %
Tolerance	1 Ω ≤ R ≤ 10 Ω ± 10 % 0R1 ≤ R < 1 Ω ± 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 Pr during 5 s	2 %	1 %
Climatic Sequence	- 55 °C + 200 °C 5 cycles	3 %	1 %
Thermal Shock	Load at 100 % Pr followed by cold - 55 °C/15	2 % or 0.05 Ω	1 %
Load Life	90/30 cycle 1000 h at Pr at + 25 °C	5 %	1.5 %

SPECIAL FEATURES

RSSD TYPE		8 × 34	10 × 50	13 × 70	16 × 94	20 × 117	25 × 138	25 × 168	30 × 250	40 × 370	50 × 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 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 Rn.

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

Please consult VISHAY SFERNICE regarding the acceptable tolerance.

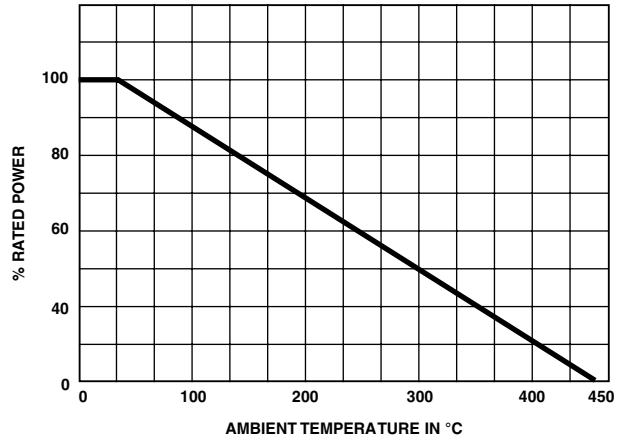
RECOMMENDATIONS FOR USE

Maximum Current Strength:

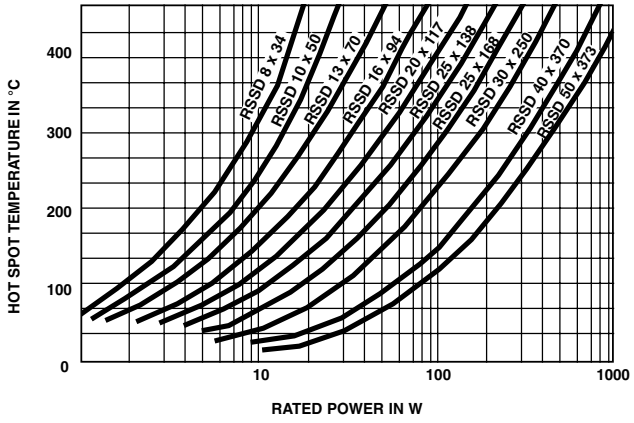
The ohmic value and the power decrease as the connections are brought together. To avoid overload, the maximum current strength that is permissible for Rn should never be exceeded:

$I_{max} = \sqrt{Pr/Rn}$

POWER RATING CHART



TEMPERATURE RISE



MARKING

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

ORDERING INFORMATION							
RSSD	**10 × 50**		**AN**	**10U**	**5 %**	**BA25**	**e**
MODEL	STYLE	SPECIAL DESIGN	CONNECTIONS		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					
RSSD	**10 × 50**	**A**	**10R0**	**J**	**S06**
MODEL	STYLE	CONNECTIONS	OHMIC VALUE	TOLERANCE	PACKAGING

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