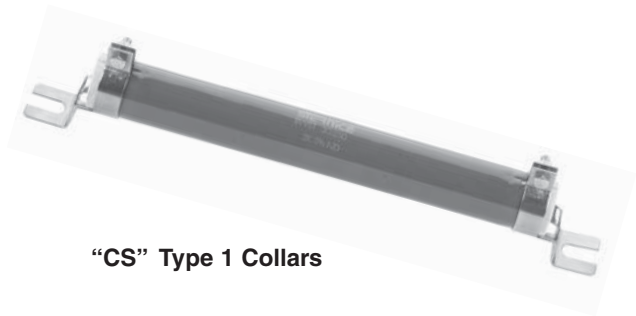


Fixed Wirewound High Power Vitreous Resistors Electrical Traction Model



“CS” Type 1 Collars

FEATURES

- 95 W to 800 W at 25 °C
- NF C 93-214
- RB 25 x 168, RB 30 x 250
- Rugged construction for use in severe environmental conditions
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

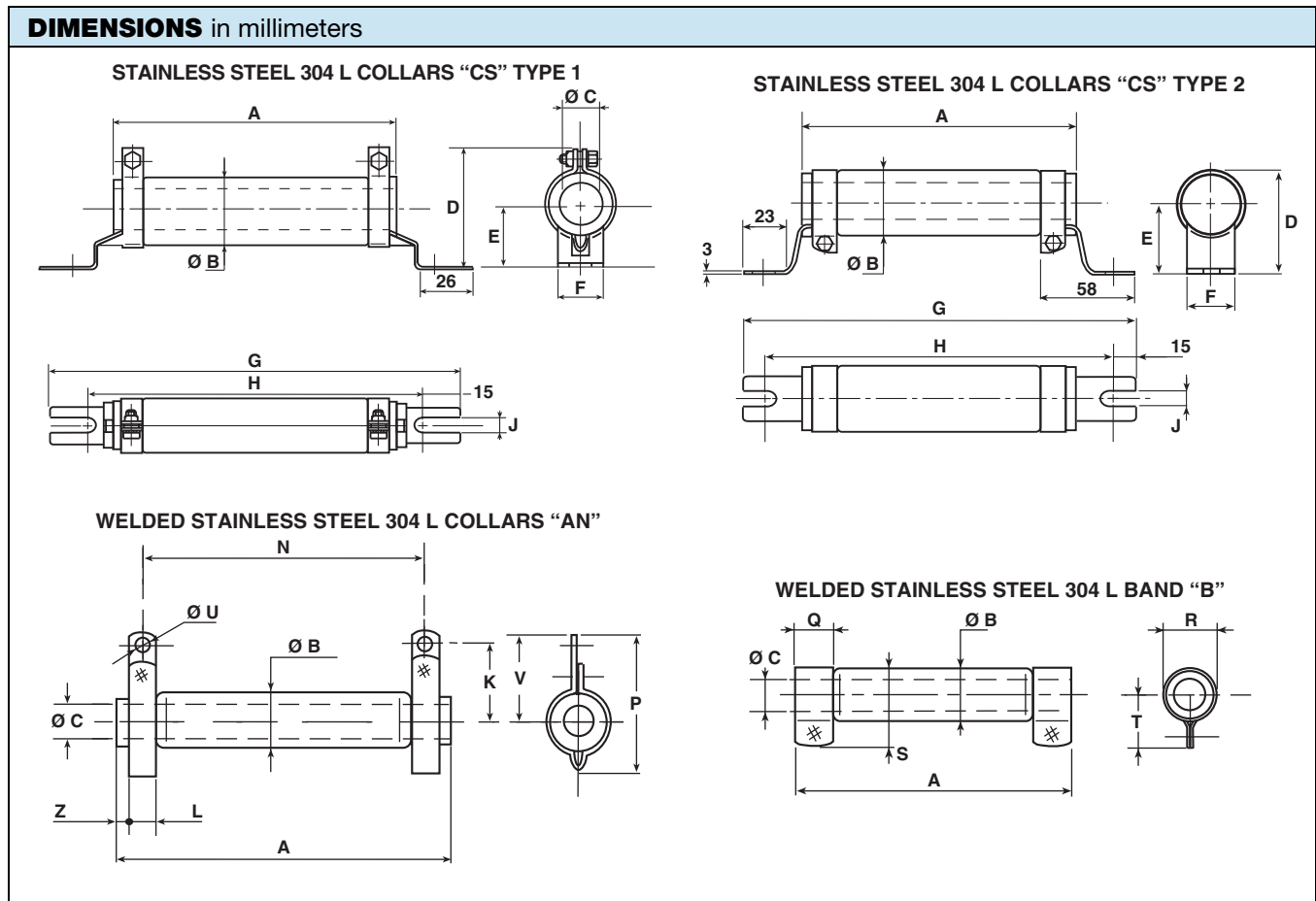


RoHS
COMPLIANT

The RWST vitreous wirewound high power resistors are known for their excellent reliability which has developed out of the Vishay Sfernice experience over several decades in the field of high current applications.

Extremely severe conditions of use are encountered in electrical traction including repeated overloads. To withstand such conditions the new RWST model is extremely rugged and is manufactured to a very carefully monitored process using the best materials.

NF F 16101, 10/1988 and 16102, 04/1992: Not applicable (our parts are made of metallic and refractory materials).
NF C 93-214. Performances according to NF C 93-214.





DIMENSIONS in millimeters												
SERIES	CONNECTIONS	A ± 2	Ø B MAX.	Ø C MIN.	D	E	F ± 0.5	G - 4/+ 0	H - 4/+ 0	J ± 0.5	K	L + 0.5 + 0
RWST 25 x 138	AN-B CS type 1	138	28	12	50 ± 1.5	27 ± 1	24	199	169	6.5	28.5 ± 1	9
RWST 25 x 168	AN-B CS type 1	168	28	12	50 ± 1.5	27 ± 1	24	229	199	6.5	28.5 ± 1	9
RWST 30 x 250	AN-B CS type 1	250	33	17	60 ± 1.5	30 ± 1	25	317	287	9	31 ± 1	13
RWST 40 x 370	AN CS type 2	370	45	22	69 max.	45 ± 1.5	30	432	405	9	45 ± 1.5	18
RWST 50 x 373	AN CS type 2	373	53	27.1	80 max.	51 ± 1.5	30	432	405	9	51 ± 1.5	18
SERIES	CONNECTIONS	N ± 2	P	Q - 0/+ 5	R - 0.3/+ 0.9	S MAX.	T ± 1	Ø U	V	Z	AVERAGE UNIT WEIGHT IN g (CS collars)	
RWST 25 x 138	AN-B CS type 1	117 ± 2	51.5 ± 1.5	15	26	38.5	23.5	5.7	33.5 ± 1	6	225	
RWST 25 x 168	AN-B CS type 1	147 ± 2	50 ± 1.5	15	26	38.5	23.5	5.7	33.5 ± 1	6	250	
RWST 30 x 250	AN-B CS type 1	227 ± 2	55 ± 1.5	18	31	43.5	26	5.7	36 ± 1	5	445	
RWST 40 x 370	AN CS type 2	332 ± 3	81.5 max.	-	-	-	-	9.2	57 ± 1.5	10	1400	
RWST 50 x 373	AN CS type 2	332 ± 3	92.5 max.	-	-	-	-	9.2	63 ± 1.5	11.5	2200	

STANDARD ELECTRICAL SPECIFICATIONS				
MODEL	SIZE	RESISTANCE RANGE Ω	RATED POWER P _{25 °C} W	TOLERANCE ± %
RWST 25 x 138	25138	2.7 to 82K	95	5, 10
RWST 25 x 168	25168	2.7 to 100K	160	5, 10
RWST 30 x 250	30250	4.7 to 220K	280	5, 10
RWST 40 x 370	40370	8.2 to 360K	500	5, 10
RWST 50 x 373	50373	12 to 430K	700	5, 10

MECHANICAL SPECIFICATIONS	
Mechanical Protection	Vitreous enamel
Resistive Element	Ni-Cr wire
Connections	CS supporting collars
AN Collar or B	on request
Average Unit Weight	225 g to 2200 g

TECHNICAL SPECIFICATIONS	
Resistance Range	2.7 Ω to 430 kΩ (E12, E24 preferred series values)
Resistance Tolerance Standard	± 5 %
Power Rating	95 W to 800 W at 25 °C
Temperature Coefficient	75 ppm/°C (typical)
Shelf Life	0.1 % year (typical)

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 Voltage limited at < 5000 V	2 % or 0.05 Ω	0.5 %
Climatic Sequence	-55 °C +200 °C	2 % or 0.05 Ω Insulation resistance 100 MΩ	0.5 %
Humidity (Steady State)	56 days 95 % relative humidity	3 % or 0.05 Ω Insulation resistance 100 MΩ	0.5 %
Thermal Shock	Load at 100 % P _r followed by cold temperature exposure at - 55 °C/15'	2 % or 0.05 Ω	0.5 %
Shock	Severity 50 A 9 shocks/each side	1 % or 0.05 Ω	0.25 %
Vibration	Severity 55B	1 % or 0.05 Ω	0.25 %
Terminal Strength	AN B Traction 40 Ncm Torque 60 Ncm	1 % or 0.05 Ω	0.5 %
Load Life	90'/30' cycle 1000 h at P _r 25 °C	5 %	1000 h 1 % 5000 h 2 %

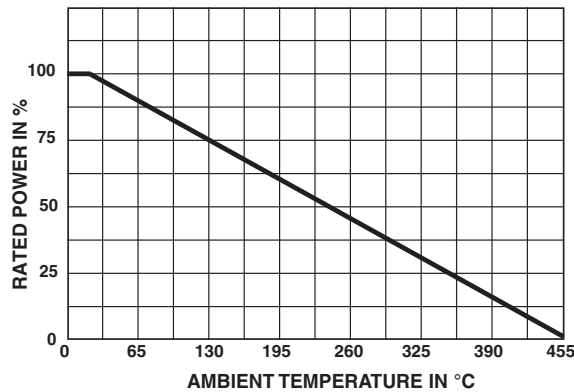
SPECIAL FEATURES					
RWST STYLE	25 x 138	25 x 168	30 x 250	40 x 370	50 x 373
Designation NF C 93-214	-	RB 25 x 168	RB 30 x 250	-	-
Maximum Power Rating at 25 °C	110 W	180 W	320 W	600 W	800 W
Ohmic Range (E12, E24 series)	2.7 Ω to 82 kΩ	2.7 Ω to 100 kΩ	4.7 Ω to 220 kΩ	8.2 Ω to 360 kΩ	12 Ω to 430 kΩ
Limiting Element Voltage	1400 V	1900 V	3000 V	4500 V	5000 V
Critical Resistance	18 kΩ	20 kΩ	30 kΩ	36 kΩ	30 kΩ

NON INDUCTIVE WINDING

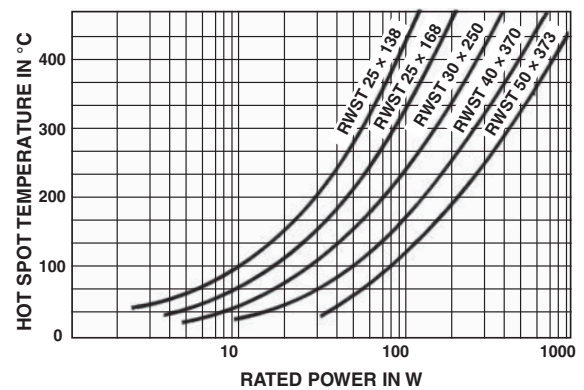
For high frequencies, low self induction resistors are available with special windings. RWSTNI designation.

MODEL AND STYLE	RWSTNI 25 x 138	RWSTNI 25 x 168	RWSTNI 30 x 250	RWSTNI 40 x 370	RWSTNI 50 x 373
Ohmic Range (E12 series)	22 Ω 2.5 kΩ	22 Ω 4 kΩ	120 Ω 6.8 kΩ	120 Ω 8.2 kΩ	150 Ω 8.2 kΩ

POWER RATING



TEMPERATURE RISE



MARKING

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

PACKAGING

Box: Fixed quantity depending on size and connections

ORDERING INFORMATION

RWST	25 x 138			B	56U	± 5 %	B06	e
MODEL	STYLE	NON-INDUCTIVE WINDING	SPECIAL DESIGN	CONNECTIONS	OHMIC VALUE	TOLERANCE	PACKAGING	LEAD (Pb)-FREE
		Optional	Optional					

Custom items are subject to extra-charge and min. order. Please see price list.

GLOBAL PART NUMBER INFORMATION

R	W	S	T	2	5	1	6	8	C		4	7	0	0	J	B	0	4			
GLOBAL MODEL	SIZE	LEADS	OPTION	OHMIC VALUE	TOLERANCE	PACKAGING	SPECIAL														
RWST	25 x 138 25 x 168 30 x 250 40 x 370 50 x 373	A = AN B = B C = CS F = Faston	N = Non inductive winding	The first three digits are significant figures and the last digit specifies the number of zeros to follow. R designates decimal point. 4700 = 470 Ω 48R8 = 48.7 Ω R010 = 0.01 Ω R470 = 0.47 Ω	J = 5.0 % K = 10 %	Box: BO1 BO2 BO2NA BO4 BO4NA BO6 BO6NA	As applicable. Example: BA7														



Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

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.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.