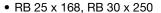


Wirewound Resistors, Industrial High Power, Vitreous Tubular



FEATURES

- 95 W to 800 W at 25 °C
- NF C 93-214



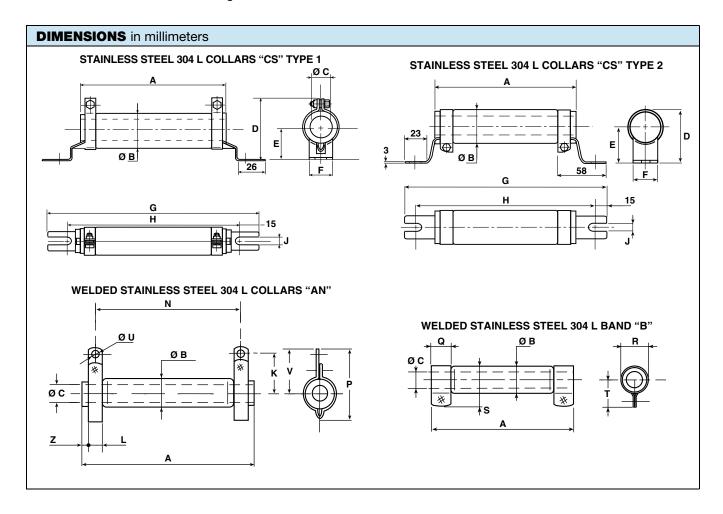


- COMPLIANT
- Rugged construction for use in severe environmental conditions
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

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.







DIMEN	SIONS in millir	neters										
SERIES	CONNECTIONS	A ± 2	Ø B MAX.	Ø C MIN.	D	E	F ± 0.5	G - 4 + 0	H - 4 + 0	J ± 0.5	К	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	Р	Q - 0 + 5	R - 0.3 + 0.9	S MAX.	T ± 1	øυ	V	Z	AVERAC WEIGH (CS cc	IT IN g
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	22	.5
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	25	50
RWST 30 x 250	AN-B CS type 1	227 ± 2	55 ± 1.5	18	31	43.5	26	5.7	36 ± 1	5	44	5
RWST 40 x 370	AN CS type 2	332 ± 3	81.5 max.	-	-	-	-	9.2	57 ± 1.5	10	140	00
RWST 50 x 373	AN CS type 2	332 ± 3	92.5 max.	-	-	-	-	9.2	63 ± 1.5	11.5	220	00

STANDARD ELEC	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			
RWST 25 x 168	25168	2.7 to 100K	160	5			
RWST 30 x 250	30250	4.7 to 220K	280	5			
RWST 40 x 370	40370	8.2 to 360K	500	5			
RWST 50 x 373	50373	12 to 390K	700	5			

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					

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

TECHNICAL SPECIFICATIONS						
2.7 Ω to 430 k Ω (E12, E24 preferred series values)						
± 5 %						
95 W to 800 W at 25 °C						
75 ppm/°C (typical)						
0.1 % year (typical)						

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 M Ω	0.5 %	
Humidity (Steady State)	56 days 95 % relative humidity	3 % or 0.05 Ω Insulation resistance 100 M Ω	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 <i>P_r</i> 25 °C	5 %	1000 h 1 % 5000 h 2 %	

Revision: 14-Oct-16 2 Document Number: 50017



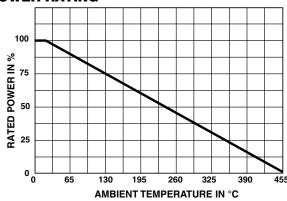
SPECIAL FEATURES						
RWST STYLE	25 x 138	25 x 168	30 x 250	40 x 370	50 x 373	
Designation NF C 93-214	-	RB 25 x 168	RB 30 x 250	-	-	
Maximum Power Rating at 25 °C	110 W	180 W	320 W	600 W	800 W	
Ohmic Range (E12, E24 series)	$2.7~\Omega$ to $82~k\Omega$	$2.7~\Omega$ to $100~\text{k}\Omega$	$4.7~\Omega$ to 220 k Ω	8.2 Ω to 360 k Ω	12 Ω to 430 k Ω	
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

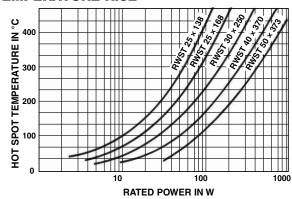
For high frequencies, low self induction resistors are available with special windings. RWSTNI designation.

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

POWER RATING



TEMPERATURE RISE



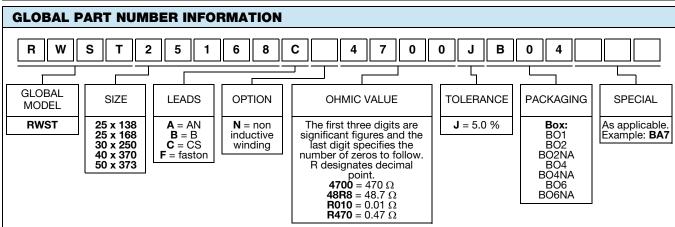
MARKING

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

PACKAGING

Box: Fixed quantity depending on size and connections

ORDE	RING IN	FORMATION						
RWST	25 x 138			В	56U	± 5 %	B06	е
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.			



www.vishay.com/doc?50033



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