COMPLIANT



Fixed Wirewound High Power Vitreous Resistors with Terminal Collars or Bands



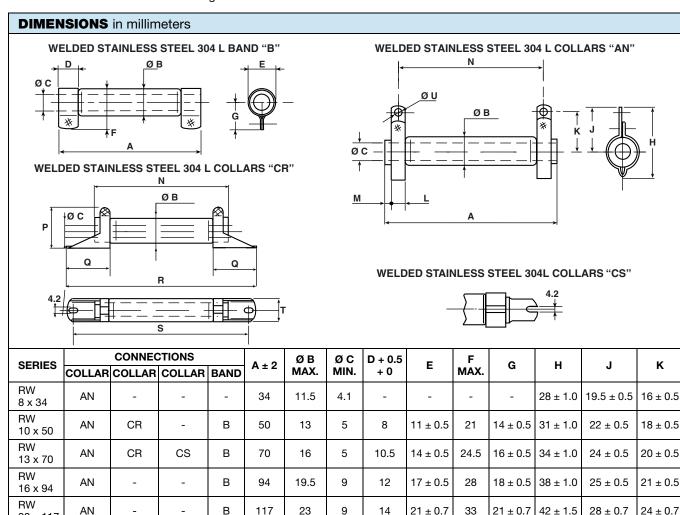
The RW wirewound power resistors are extremely well suited to professional applications, where high power and excellent endurance are required. They meet all requirements of NF C 93-214 specifications and five sizes cover the power range from 10 W to 80 W. Non inductive types are available, by using the special RWNI winding. For higher power or extremely severe conditions of use, see the RWST series.

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.

20 x 117

FEATURES

- 10 W to 80 W at 25 °C
- NF C 93-214
- RB 13 x 70 RB 20 x 117
- High power up to 80 W at 25 °C
- High long term stability drift < 2.5 % after 5000 h
- · Great mechanical strength
- Fire proof
- Environmental performance
- Thermal shock strength 0.5 % (100 % h at -25 °C)
- Material categorization: for definitions of compliance please see www.vishav.com/doc?99912







DIMEN	DIMENSIONS in millimeters												
SERIES	CONNECTIONS			L + 0.5	+ 0.5 + 0 M ± 1.5	N + 2	P ± 1	Q ± 0.5	R + 2	S ± 2	т	øυ	
OLITILO	COLLAR	COLLAR	COLLAR	BAND	+ 0	141 ± 1.5	14 ± 2		Q ± 0.5	11 ± 2	0 ± 2	•	
RW 8 x 34	AN	-	-	-	5	1	27	-	-	-	-	-	3.2
RW 10 x 50	AN	CR	ı	В	6.35	1.5	40	19.5	19.5	72	62	12	4.2
RW 13 x 70	AN	CR	CS	В	0.6	3.5	56	22.5	20.5	91	81	15	4.2
RW 16 x 94	AN	ı	ı	В	0.6	4	78	ı	-	-	ı	-	4.2
RW 20 x 117	AN	ı	ı	В	0.8	6	98	ı	-	-	ı	-	4.2

STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	SIZE	RESISTANCE RANGE Ω	RATED POWER P _{25 °C} W	TOLERANCE ± %			
RW 8 x 34	0834	1 to 10K	10	5			
RW 10 x 50	1050	1 to 27K	17	5			
RW 13 x 70	1370	2.2 to 56K	28	5			
RW 16 x 94	1694	2.2 to 56K	44	5			
RW 20 x 117	20117	2.7 to 68K	72	5			

MECHANICAL SPECIFICATIONS						
Mechanical Protection	Enamel					
Resistive Element	Ni-Cr wire					
Connections	B band AN - CR - CS collars					
Average Unit Weight	10 g to 100 g					

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

TECHNICAL SPECIFICATIONS						
Resistance Range	1 Ω to 68 k Ω (E12 preferred series value)					
Power Rating	10 W to 80 W at 25 °C					
Temperature Coefficient	75 ppm/°C (typical)					
Dielectric Strength	1000 V _{RMS} (AN collars)					
Insulation Resistance	100 M Ω (500 V $_{ m DC}$) AN collars					
Shelf Life	0.1 % year (typical)					

PERFORMANCE				
TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES	AND DRIFTS
Short Time Overload	10 <i>P</i> _r during 5 s voltage limited at < 5000 V current limited at 5 A	2 % or 0.05 Ω	0.5 %	
Climatic Sequence		3 % or 0.05 Ω Insulation resistance > 100 M Ω	0.5 %	6
Humidity (Steady State)	56 days 95 % relative humidity	2 % or 0.05 Ω Insulation resistance > 100 M Ω	0.5 %	
Thermal Shock	Load at 100 % $P_{\rm r}$ followed by cold temp. exposure at -55 °C 2 % or 0.05 Ω 0.5 %		6	
Shock Severity 50, 9 shocks/each side		1 % or 0.05 Ω	0.25 %	
Vibration Severity 55B		1 % or 0.05 Ω	0.25 %	
Terminal Strength Collar AN traction 40 N band B torque 60 Ncm		1 % or 0.05 Ω	0.5 %	
Load Life	90' / 30' cycle	5 %	1000 h	1.5 %
	1000 h at P _r 25 °C	· · ·	5000 h	2.5 %

SPECIAL FEATURES								
RW STYLE	8 x 34	10 x 50	13 x 70	16 x 94	20 x 117			
Designation NF C 93-214	=	-	RB 13 x 70	=	RB 20 x 117			
Maximum Power Rating at 25 °C	13 W	20 W	32 W	50 W	80 W			
Ohmic Range (E12, E24 series)	1 Ω to10 k Ω	1 Ω to27 kΩ	$2.2~\Omega$ to $56~k\Omega$	$2.2~\Omega$ to $56~\text{k}\Omega$	$2.7~\Omega$ to $68~k\Omega$			
Limiting Element Voltage	300 V	450 V	650 V	900 V	1100 V			
Critical Resistance	6.9 kΩ	10 kΩ	13.2 kΩ	16 kΩ	15.1 kΩ			

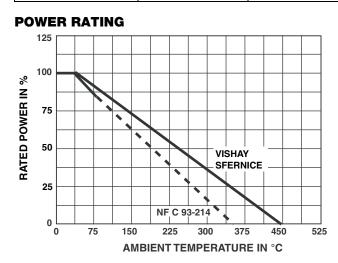
Revision: 27-Apr-16 2 Document Number: 50016



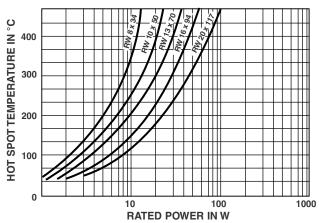
NON INDUCTIVE WINDING

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

MODEL	RWNI	RWNI	RWNI	RWNI	RWNI
AND STYLE	8 x 34	10 x 50	13 x 70	16 x 94	20 x 117
Ohmic Range	4.7 Ω 100 Ω	$4.7~\Omega$ 220 Ω	$4.7~\Omega$ 620 Ω	10 Ω 1.2 kΩ	10 Ω 2.2 kΩ



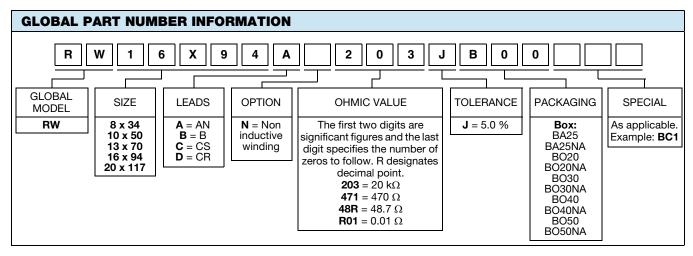
TEMPERATURE RISE



MARKING

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

ORDE	ORDERING INFORMATION								
RW	20 × 117	NI		AN	68 Ω	± 5 %	B020	е	
MODEL	STYLE	NON-INDUCTIVE WINDING Optional	SPECIAL DESIGN Optional	CONNECTIONS	OHMIC VALUE Custom items are subject to extra-charge and min. order. Please see price list.	TOLERANCE	PACKAGING	LEAD (Pb)-FREE	



RELATED DOCUMENTS	
APPLICATION NOTES	
Potentiometers and Trimmers	www.vishay.com/doc?51001
Guidelines for Vishay Sfernice Resistive and Inductive Components	www.vishay.com/doc?52029



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VK100NA-750 40/70MJ2K00BE VP10FA-3K VP50KA-20K VPR10F1 VPR10F-13.5K VPR10F-4500 VPR10F-4.5K VPR10F-4K

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