

Wirewound Resistors, Military, MIL-PRF-26 Qualified, Type RW, Precision Power, Silicone Coated, Axial Lead



FEATURES

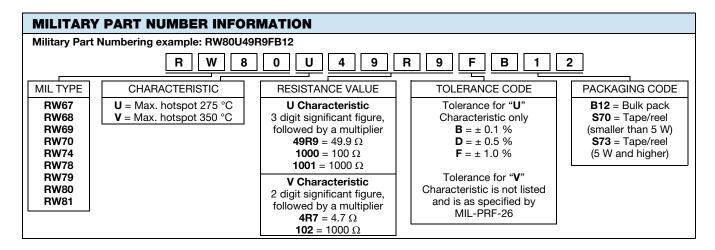
- High temperature coating (> 350 °C)
- Complete welded construction
- Qualified to MIL-PRF-26
- Excellent stability in operation (typical resistance shift < 0.5 %)

STANDARD ELECTRICAL SPECIFICATIONS						
MILITARY MODEL	VISHAY REFERENCE MODEL	POWER RATING P _{25 °C} W CHARACTERISTIC U	POWER RATING P _{25°C} W CHARACTERISTIC V	RESISTANCE RANGE Ω	TOLERANCE ± %	WEIGHT (typical) g
RW81	G001380	1.0	=	0.1 to 1K	0.1, 0.5, 1	0.20
RW70	RS01A300	1.0	=	0.1 to 2.74K	0.1, 0.5, 1	0.34
RW80	G003380	2.0	=	0.1 to 2.74K	0.1, 0.5, 1	0.34
RW79	RS02B300	3.0	-	0.1 to 6.49K	0.1, 0.5, 1	0.70
RW69	RS02C23	-	3.0	0.1 to 2.0K	5, 10	1.6
RW74	RS00569	5.0	=	0.1 to 24.3K	0.1, 0.5, 1	4.2
RW67	RS00570	=	6.5	0.1 to 8.2K	5, 10	4.2
RW78	RS01038	10.0	-	0.1 to 71.5K	0.1, 0.5, 1	9.0
RW68	RS01039	=	11.0	0.1 to 20K	5, 10	9.0

Note

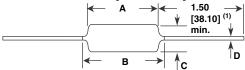
• RW67, RW68, RW69 available tolerance for these MIL parts is \pm 5 % for 1 Ω and above, \pm 10 % below 1 Ω

TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	RW RESISTOR CHARACTERISTICS	
Temperature Coefficient	ppm/°C	\pm 20 for 10 Ω and above, \pm 50 for 1 Ω to 9.9 $\Omega,$ \pm 90 for below 1 Ω	
Maximum Working Voltage	V	$(P \times R)^{1/2}$	
Insulation Resistance	Ω	1000 M Ω minimum dry, 100 M Ω minimum after moisture test	
Solderability	-	MIL-PRF-26 type - meets requirements of ANSI J-STD-002	
Operating Temperature Range	°C	Characterisitic U = - 65 to + 250, characteristic V = - 65 to + 350	





DIMENSIONS in inches [millimeters]



Note

(1) On some standard reel pack methods, the leads may be trimmed to a shorter length than shown

MATERIAL SPECIFICATIONS

Element: Copper-nickel alloy or nickel-chrome alloy, depending on resistance value

Core: Ceramic, steatite or alumina, depending on physical

Coating: Special high temperature silicone

Standard Terminals: 60/40 Sn/Pb coated Copperweld®

End Caps: Stainless steel

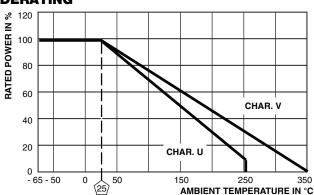
MARKING			
MODELS: RW70, RW74, RW78, RW79, RW80, RW81	MODELS: RW67, RW68, RW69		
Characteristic U	Characteristic V		
Tolerance code: B = 01 %, D = 0.5 %, F = 1 %	Tolerance code: Not listed		
Example	Example		
Dale	Dale		
RW80U Model	RW68 Model		
1001F Characteristic, value	V100 Characteristic, value		
0703 Date code	M0202 Date code		

MILITARY	DIMENSIONS in inches [millimeters]					
MODEL	Α	B ⁽²⁾ (max.)	С	D		
RW81	0.250 ± 0.031	0.281	0.085 ± 0.020	0.020 ± 0.002		
	[6.35 ± 0.787]	[7.14]	[2.16 ± 0.508]	[0.508 ± 0.051]		
RW70	0.406 ± 0.031	0.437	0.094 ± 0.031	0.020 ± 0.002		
RW80	[10.31 ± 0.787]	[11.10]	[2.39 ± 0.787]	[0.508 ± 0.051]		
RW79	0.560 ± 0.062	0.622	0.187 ± 0.031	0.032 ± 0.002		
	[14.22 ± 1.57]	[15.80]	[4.75 ± 0.787]	[0.813 ± 0.051]		
RW69	0.500 ± 0.062	0.593	0.218 ± 0.031	0.032 ± 0.002		
	[12.70 ± 1.57]	[15.06]	[5.54 ± 0.787]	[0.813 ± 0.051]		
RW74	0.875 ± 0.062	1.0	0.312 ± 0.031	0.040 ± 0.002		
RW67	[22.23 ± 1.57]	[25.4]	[7.92 ± 0.787]	[1.02 ± 0.051]		
RW78	1.78 ± 0.062	1.87	0.375 ± 0.031	0.040 ± 0.002		
	[45.21 ± 1.57]	[47.50]	[9.53 ± 0.787]	[1.02 ± 0.051]		
RW68	1.875 + 0.063 - 0.125	1.94	0.344 ± 0.094	0.040 ± 0.002		
	[47.63 + 1.60 - 3.18]	[49.28]	[8.74 ± 2.39]	[1.02 ± 0.051]		

Note

(2) B (max.) dimension is clean lead to clean lead

DERATING



PERFORMANCE				
TEST	COMPLETIONS OF TEST	TEST LIMITS		
1531	CONDITIONS OF TEST	CHARACTERISTIC U	CHARACTERISTIC V	
Thermal Shock	Rated power applied until thermally stable, then a minimum of 15 min at - 55 °C	± (0.2 % + 0.05 Ω) ΔR	\pm (2.0 % + 0.05 Ω) ΔR	
Short Time Overload	5 x rated power (3.75 W and smaller), 10 x rated power (4 W and larger) for 5 s	± (0.2 % + 0.05 Ω) ΔR	\pm (2.0 % + 0.05 Ω) ΔR	
Dielectric Withstanding Voltage	500 V _{RMS} min. (RW70, RW80, RW81), 1000 V _{RMS} for all others, duration of 1 min	± (0.1 % + 0.05 Ω) ΔR	± (0.1 % + 0.05 Ω) ΔR	
Low Temperature Storage	- 65 °C for 24 h	$\pm (0.2 \% + 0.05 \Omega) \Delta R$	\pm (2.0 % + 0.05 Ω) ΔR	
High Temperature Exposure	250 h at: U = + 250 °C, V = + 350 °C	\pm (0.5 % + 0.05 Ω) ΔR	\pm (2.0 % + 0.05 Ω) ΔR	
Moisture Resistance	MIL-STD-202 Method 106, 7b not applicable	\pm (0.2 % + 0.05 Ω) ΔR	\pm (2.0 % + 0.05 Ω) ΔR	
Shock, Specified Pulse	MIL-STD-202 Method 213, 100 g's for 6 ms, 10 shocks	\pm (0.1 % + 0.05 Ω) ΔR	\pm (0.2 % + 0.05 Ω) ΔR	
Vibration, High Frequency	Frequency varied 10 Hz to 2000 Hz, 20 g peak, 2 directions 6 h each	± (0.1 % + 0.05 Ω) ΔR	± (0.2 % + 0.05 Ω) ΔR	
Load Life	2000 h at rated power, + 25 °C, 1.5 h "ON", 0.5 h "OFF"	$\pm (0.5 \% + 0.05 \Omega) \Delta R$	$\pm (3.0 \% + 0.05 \Omega) \Delta R$	
Terminal Strength	Pull test 5 s to 10 s, 5 lb (RW70, RW80, RW81), 10 lb for all others; torsion test - 3 alternating directions, 360° each	± (0.1 % + 0.05 Ω) ΔR	± (1.0 % + 0.05 Ω) ΔR	



Legal Disclaimer Notice

Vishay

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.

Revision: 02-Oct-12 Document Number: 91000



Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию.

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России, а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научноисследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,

Промышленная ул, дом № 19, литера Н,

помещение 100-Н Офис 331