

FEATURES

- Designed for precision power applications
- All-welded construction
- RW Series "Mil" value resistors marked with "Mil" in accordance with MIL-R-26 specifications

SPECIFICATIONS

Material

Coating: Silicone-ceramic.

Core: Ceramic.

Terminals: Solder-coated copper clad axial.

Derating: Linearly from 100% @ +25°C to 0% @ +275°C.

Electrical

Tolerance: ±5% (J type), ±1% (F type) (other tolerances available).

Power rating: Based on 25°C free air rating.

Maximum ohmic values: See chart.

Overload: Under 5 watts: 5 times rated wattage for 5 seconds. 5 watts and over: 10 times rated wattage for 5 seconds.

Temperature coefficient:

Under 1Ω: ±90 ppm/°C
1 to 9.99Ω: ±50 ppm/°C
10Ω and over: ±20 ppm/°C

Dielectric withstanding voltage:

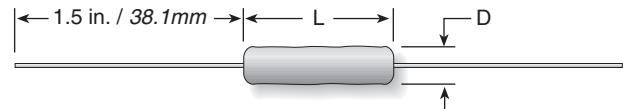
500 VAC: 1 watt rating
1000 VAC: 2, 3, 5, 7 and 10 watt rating

80 Series

Commercial Grade Acrasil®, Silicone-Ceramic Conformal Axial Terminal Wirewound
1% Tol. (5% avail.)

RW Series

Military Grade 80 Series MIL-R-26 Qualified



ORDERING INFORMATION

Commercial Grade Non-Inductive Winding
Optional (blank = std. winding)

81NR10

80 Series
Acrasil®
Silicone Ceramic
Conformal Axial
Term. Wirewound

Wattage
1 = 1W
2 = 2W
3 = 3W
5 = 5W
0 = 10W

Tolerance
F = 1%
J = 5%

Resistance Value
R10 = 0.10Ω
1R0 = 1.0Ω
10R = 10.0Ω
250 = 250Ω
1K0 = 1,000Ω
4K5 = 4,500Ω
50K = 50,000Ω

Military Grade

RW74U1001F

RW Series
Military grade

Resistance Value
R100 = 0.1Ω
1R00 = 1.0Ω
10R0 = 10.0Ω
1000 = 1000Ω
1001 = 1000Ω
1503 = 150KΩ

Tolerance
F = 1%
J = 5%

This product will not be made available as RoHS Compliant.

For RoHS Compliant equivalent, see 40 Series.

Comm. Grade	Military Grade	Watts	Ohms	Dimensions (in./mm max.)		Lead ga.
				Length	Diam.	
81F	RW70U	1	0.1-6K	0.437 / 11.1	0.125 / 3.2	150 24
82		2	0.1-8K	0.406 / 10.3	0.219 / 5.6	100 20
83F	RW79U	3	0.1-20K	0.593 / 15.1	0.218 / 5.5	200 20
83J	RW69V					
85F	RW74U	5	0.1-75K	0.937 / 23.8	0.343 / 8.7	460 18
85J	RW67V					
80F	RW78U	10	0.1-150K	1.842 / 46.8	0.406 / 10.3	1000 18
80J	RW68V					

Non-Inductive versions available. Insert "N" before tolerance code. Example: 83NF2K21

Ohmite's highest quality conformal axial terminal silicone-ceramic coated resistors for applications requiring high precision and stability. These resistors have a low temperature coefficient and maintain a high degree of stability under demanding conditions.

COMMERCIAL GRADE PART NUMBERS

Ohmic value	Part No. Prefix ➤ Suffix ▼	Wattage				Ohmic value	Part No. Prefix ➤ Suffix ▼	Wattage				Ohmic value	Part No. Prefix ➤ Suffix ▼	Wattage				Ohmic value	Part No. Prefix ➤ Suffix ▼	Wattage										
		1	3	5	10			1	3	5	10			1	3	5	10			5	10									
0.1	—R10	✓	✓	✓	✓	2.21	—2R21	✓	✓	✓	✓	51.1	—51R1	✓	✓	✓	✓	1,210	—1K21	✓	✓	✓	✓	27,400	—27K4	✓	✓	✓	✓	
0.11	—R11	✓	✓	✓	✓	2.49	—2R49	✓	✓	✓	✓	56.2	—56R2	✓	✓	✓	✓	1,330	—1K33	✓	✓	✓	✓	30,100	—30K1	✓	✓	✓	✓	
0.121	—R121	✓	✓	✓	✓	2.74	—2R74	✓	✓	✓	✓	61.9	—61R9	✓	✓	✓	✓	1,500	—1K5	✓	✓	✓	✓	33,200	—33K2	✓	✓	✓	✓	
0.133	—R133	✓	✓	✓	✓	3.01	—3R01	✓	✓	✓	✓	68.1	—68R1	✓	✓	✓	✓	1,620	—1K62	✓	✓	✓	✓	37,400	—37K4	✓	✓	✓	✓	
0.15	—R15	✓	✓	✓	✓	3.32	—3R32	✓	✓	✓	✓	75	—75R	✓	✓	✓	✓	1,820	—1K82	✓	✓	✓	✓	38,300	—38K3	✓	✓	✓	✓	
0.162	—R162	✓	✓	✓	✓	3.74	—3R74	✓	✓	✓	✓	82.5	—82R5	✓	✓	✓	✓	2,000	—2K0	✓	✓	✓	✓	40,200	—40K2	✓	✓	✓	✓	
0.182	—R182	✓	✓	✓	✓	4.02	—4R02	✓	✓	✓	✓	90.9	—90R9	✓	✓	✓	✓	2,210	—2K21	✓	✓	✓	✓	45,300	—45K3	✓	✓	✓	✓	
0.2	—R20	✓	✓	✓	✓	4.53	—4R53	✓	✓	✓	✓	100	—100	✓	✓	✓	✓	2,490	—2K49	✓	✓	✓	✓	49,900	—49K9	✓	✓	✓	✓	
0.221	—R221	✓	✓	✓	✓	4.99	—4R99	✓	✓	✓	✓	110	—110	✓	✓	✓	✓	2,740	—2K74	✓	✓	✓	✓	51,100	—51K1	✓	✓	✓	✓	
0.249	—R249	✓	✓	✓	✓	5.11	—5R11	✓	✓	✓	✓	121	—121	✓	✓	✓	✓	3,010	—3K01	✓	✓	✓	✓	56,200	—56K2	✓	✓	✓	✓	
0.274	—R274	✓	✓	✓	✓	5.62	—5R62	✓	✓	✓	✓	133	—133	✓	✓	✓	✓	3,320	—3K32	✓	✓	✓	✓	61,900	—61K9	✓	✓	✓	✓	
0.301	—R301	✓	✓	✓	✓	6.19	—6R19	✓	✓	✓	✓	150	—150	✓	✓	✓	✓	3,740	—3K74	✓	✓	✓	✓	68,100	—68K1	✓	✓	✓	✓	
0.332	—R332	✓	✓	✓	✓	6.81	—6R81	✓	✓	✓	✓	162	—162	✓	✓	✓	✓	4,020	—4K02	✓	✓	✓	✓	75,000	—75K	✓	✓	✓	✓	
0.374	—R374	✓	✓	✓	✓	7.5	—7R5	✓	✓	✓	✓	182	—182	✓	✓	✓	✓	4,530	—4K53	✓	✓	✓	✓	82,500	—82K5	✓	✓	✓	✓	
0.392	—R392	✓	✓	✓	✓	8.25	—8R25	✓	✓	✓	✓	200	—200	✓	✓	✓	✓	4,990	—4K99	✓	✓	✓	✓	90,900	—90K9	✓	✓	✓	✓	
0.402	—R402	✓	✓	✓	✓	9.09	—9R09	✓	✓	✓	✓	221	—221	✓	✓	✓	✓	5,110	—5K11	✓	✓	✓	✓	100,000	—100K	✓	✓	✓	✓	
0.453	—R453	✓	✓	✓	✓	10	—10R	✓	✓	✓	✓	249	—249	✓	✓	✓	✓	5,620	—5K62	✓	✓	✓	✓	150,000	—150K	✓	✓	✓	✓	
0.499	—R499	✓	✓	✓	✓	11	—11R	✓	✓	✓	✓	274	—274	✓	✓	✓	✓	6,190	—6K19	✓	✓	✓	✓	200,000	—200K	✓	✓	✓	✓	
0.511	—R511	✓	✓	✓	✓	12.1	—12R1	✓	✓	✓	✓	301	—301	✓	✓	✓	✓	6,810	—6K81	✓	✓	✓	✓							
0.562	—R562	✓	✓	✓	✓	13.3	—13R3	✓	✓	✓	✓	332	—332	✓	✓	✓	✓	7,500	—7K5	✓	✓	✓	✓							
0.619	—R619	✓	✓	✓	✓	15	—15R	✓	✓	✓	✓	374	—374	✓	✓	✓	✓	8,250	—8K25	✓	✓	✓	✓	✓ = Standard values						
0.681	—R681	✓	✓	✓	✓	16.2	—16R2	✓	✓	✓	✓	402	—402	✓	✓	✓	✓	9,090	—9K09	✓	✓	✓	✓	✱ = Non-standard values						
0.75	—R75	✓	✓	✓	✓	18.2	—18R2	✓	✓	✓	✓	453	—453	✓	✓	✓	✓	10,000	—10K	✓	✓	✓	✓	subject to minimum						
0.825	—R825	✓	✓	✓	✓	20	—20R	✓	✓	✓	✓	499	—499	✓	✓	✓	✓	10,500	—10K5	✓	✓	✓	✓	handling charge per						
0.909	—R909	✓	✓	✓	✓	22.1	—22R1	✓	✓	✓	✓	511	—511	✓	✓	✓	✓	11,000	—11K	✓	✓	✓	✓	item						
1	—1R0	✓	✓	✓	✓	24.9	—24R9	✓	✓	✓	✓	562	—562	✓	✓	✓	✓	12,100	—12K1	✓	✓	✓	✓	Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.						
1.1	—1R1	✓	✓	✓	✓	27.4	—27R4	✓	✓	✓	✓	619	—619	✓	✓	✓	✓	13,300	—13K3	✓	✓	✓	✓							
1.21	—1R21	✓	✓	✓	✓	30.1	—30R1	✓	✓	✓	✓	681	—681	✓	✓	✓	✓	15,000	—15K	✓	✓	✓	✓							
1.330	—1R33	✓	✓	✓	✓	33.2	—33R2	✓	✓	✓	✓	750	—750	✓	✓	✓	✓	16,200	—16K2	✓	✓	✓	✓							
1.5	—1R5	✓	✓	✓	✓	37.4	—37R4	✓	✓	✓	✓	825	—825	✓	✓	✓	✓	18,200	—18K2	✓	✓	✓	✓							
1.62	—1R62	✓	✓	✓	✓	40.2	—40R2	✓	✓	✓	✓	909	—909	✓	✓	✓	✓	20,000	—20K	✓	✓	✓	✓	Check product availability at www.ohmite.com						
1.82	—1R82	✓	✓	✓	✓	45.3	—45R3	✓	✓	✓	✓	1,000	—1K0	✓	✓	✓	✓	22,100	—22K1	✓	✓	✓	✓							
2	—2R0	✓	✓	✓	✓	49.9	—49R9	✓	✓	✓	✓	1,100	—1K1	✓	✓	✓	✓	24,900	—24K9	✓	✓	✓	✓							

✓ = Standard values
✦ = Non-standard values subject to minimum handling charge per item

Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.

Check product availability at www.ohmite.com