

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

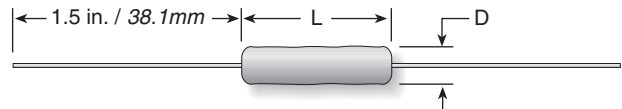
10 watt rating

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
10 = 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 avail-
able as RoHS
Compliant.**

**For RoHS
Compliant equiva-
lent, 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	✓	✓	✓	✓					
0.681	— R681	✓	✓	✓	✓	16.2	— 16R2	✓	✓	✓	✓	402	— 402	✓	✓	✓	✓	9,090	— 9K09	✓	✓	✓	✓					
0.75	— R75	✓	✓	✓	✓	18.2	— 18R2	✓	✓	✓	✓	453	— 453	✓	✓	✓	✓	10,000	— 10K	✓	✓	✓	✓					
0.825	— R825	✓	✓	✓	✓	20	— 20R	✓	✓	✓	✓	499	— 499	✓	✓	✓	✓	10,500	— 10K5	✓	✓	✓	✓					
0.909	— R909	✓	✓	✓	✓	22.1	— 22R1	✓	✓	✓	✓	511	— 511	✓	✓	✓	✓	11,000	— 11K	✓	✓	✓	✓					
1	— 1R0	✓	✓	✓	✓	24.9	— 24R9	✓	✓	✓	✓	562	— 562	✓	✓	✓	✓	12,100	— 12K1	✓	✓	✓	✓					
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	✓	✓	✓	✓					
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

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