

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

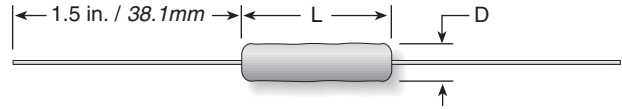
Dielectric withstanding voltage: 500 VAC: 1 watt rating
1000 VAC: 2, 3, 5, 7 and 10 watt rating

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

81NJR10

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

This product will not be made available as RoHS Compliant.

For RoHS Compliant equivalent, see 40 Series.

Military Grade

RW74U1001F

RW Series
Military grade

Resistance Value
R100 = 0.1Ω
1R00 = 1.0Ω
10R0 = 10.0Ω
1000 = 100Ω
1001 = 1000Ω

Tolerance
F = 1%
J = 5%

Comm. Grade	Military Grade	Watts	Ohms	Dimensions (in./mm max.)		Lead ga.
				Length	Diam.	Voltage
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		
		1	3	5	10			1	3	5	10			5	10	
0.1	R10	✓	✓	✓	✓	2.21	2R21	✓	✓	✓	✓	51.1	51R1	✓	✓	✓
0.11	R11	✓	✓	✓	✓	2.49	2R49	✓	✓	✓	✓	56.2	56R2	✓	✓	✓
0.121	R121	✓	✓	✓	✓	2.74	2R74	✓	✓	✓	✓	61.9	61R9	✓	✓	✓
0.133	R133	✓	✓	✓	✓	3.01	3R01	✓	✓	✓	✓	68.1	68R1	✓	✓	✓
0.15	R15	✓	✓	✓	✓	3.32	3R32	✓	✓	✓	✓	75	75R	✓	✓	✓
0.162	R162	✓	✓	✓	✓	3.74	3R74	✓	✓	✓	✓	82.5	82R5	✓	✓	✓
0.182	R182	✓	✓	✓	✓	4.02	4R02	✓	✓	✓	✓	90.9	90R9	✓	✓	✓
0.2	R20	✓	✓	✓	✓	4.53	4R53	✓	✓	✓	✓	100	100	✓	✓	✓
0.221	R221	✓	✓	✓	✓	4.99	4R99	✓	✓	✓	✓	110	110	✓	✓	✓
0.249	R249	✓	✓	✓	✓	5.11	5R11	✓	✓	✓	✓	121	121	✓	✓	✓
0.274	R274	✓	✓	✓	✓	5.62	5R62	✓	✓	✓	✓	133	133	✓	✓	✓
0.301	R301	✓	✓	✓	✓	6.19	6R19	✓	✓	✓	✓	150	150	✓	✓	✓
0.332	R332	✓	✓	✓	✓	6.81	6R81	✓	✓	✓	✓	162	162	✓	✓	✓
0.374	R374	✓	✓	✓	✓	7.5	7R5	✓	✓	✓	✓	182	182	✓	✓	✓
0.392	R392	✓	✓	✓	✓	8.25	8R25	✓	✓	✓	✓	200	200	✓	✓	✓
0.402	R402	✓	✓	✓	✓	9.09	9R09	✓	✓	✓	✓	221	221	✓	✓	✓
0.453	R453	✓	✓	✓	✓	10	10R	✓	✓	✓	✓	249	249	✓	✓	✓
0.499	R499	✓	✓	✓	✓	11	11R	✓	✓	✓	✓	274	274	✓	✓	✓
0.511	R511	✓	✓	✓	✓	12.1	12R1	✓	✓	✓	✓	301	301	✓	✓	✓
0.562	R562	✓	✓	✓	✓	13.3	13R3	✓	✓	✓	✓	332	332	✓	✓	✓
0.619	R619	✓	✓	✓	✓	15	15R	✓	✓	✓	✓	374	374	✓	✓	✓
0.681	R681	✓	✓	✓	✓	16.2	16R2	✓	✓	✓	✓	402	402	✓	✓	✓
0.75	R75	✓	✓	✓	✓	18.2	18R2	✓	✓	✓	✓	453	453	✓	✓	✓
0.825	R825	✓	✓	✓	✓	20	20R	✓	✓	✓	✓	499	499	✓	✓	✓
0.909	R909	✓	✓	✓	✓	22.1	22R1	✓	✓	✓	✓	511	511	✓	✓	✓
1	1R0	✓	✓	✓	✓	24.9	24R9	✓	✓	✓	✓	562	562	✓	✓	✓
1.1	1R1	✓	✓	✓	✓	27.4	27R4	✓	✓	✓	✓	619	619	✓	✓	✓
1.21	1R21	✓	✓	✓	✓	30.1	30R1	✓	✓	✓	✓	681	681	✓	✓	✓
1.330	1R33	✓	✓	✓	✓	33.2	33R2	✓	✓	✓	✓	750	750	✓	✓	✓
1.5	1R5	✓	✓	✓	✓	37.4	37R4	✓	✓	✓	✓	825	825	✓	✓	✓
1.62	1R62	✓	✓	✓	✓	40.2	40R2	✓	✓	✓	✓	909	909	✓	✓	✓
1.82	1R82	✓	✓	✓	✓	45.3	45R3	✓	✓	✓	✓	1,000	1K0	✓	✓	✓
2	2R0	✓	✓	✓	✓	49.9	49R9	✓	✓	✓	✓	1,100	1K1	✓	✓	✓

✓ = 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