

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

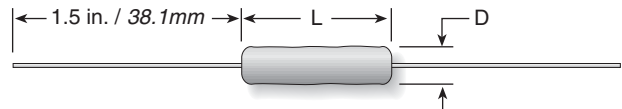
10 watt rating

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
0 = 10W

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.		Wattage		Ohmic value		Part No.		Wattage		Ohmic value		Part No.		Wattage		Ohmic value		Part No.		Wattage	
Prefix	Suffix	81F	83F	85F	80F	Prefix	Suffix	81F	83F	85F	80F	Prefix	Suffix	81F	83F	85F	80F	Prefix	Suffix	81F	83F	85F	80F
0.1	R10	✓	✓	✓	✓	2.21	2R21	✓	✓	✓	✓	51.1	51R1	✓	✓	✓	✓	1,210	1K21	✓	✓	✓	✓
0.11	R11	✓	✓	✓	✓	2.49	2R49	✓	✓	✓	✓	56.2	56R2	✓	✓	✓	✓	1,330	1K33	✓	✓	✓	✓
0.121	R121	✓	✓	✓	✓	2.74	2R74	✓	✓	✓	✓	61.9	61R9	✓	✓	✓	✓	1,500	1K5	✓	✓	✓	✓
0.133	R133	✓	✓	✓	✓	3.01	3R01	✓	✓	✓	✓	68.1	68R1	✓	✓	✓	✓	1,620	1K62	✓	✓	✓	✓
0.15	R15	✓	✓	✓	✓	3.32	3R32	✓	✓	✓	✓	75	75R	✓	✓	✓	✓	1,820	1K82	✓	✓	✓	✓
0.162	R162	✓	✓	✓	✓	3.74	3R74	✓	✓	✓	✓	82.5	82R5	✓	✓	✓	✓	2,000	2K0	✓	✓	✓	✓
0.182	R182	✓	✓	✓	✓	4.02	4R02	✓	✓	✓	✓	90.9	90R9	✓	✓	✓	✓	2,210	2K21	✓	✓	✓	✓
0.2	R20	✓	✓	✓	✓	4.53	4R53	✓	✓	✓	✓	100	100	✓	✓	✓	✓	2,490	2K49	✓	✓	✓	✓
0.221	R221	✓	✓	✓	✓	4.99	4R99	✓	✓	✓	✓	110	110	✓	✓	✓	✓	2,740	2K74	✓	✓	✓	✓
0.249	R249	✓	✓	✓	✓	5.11	5R11	✓	✓	✓	✓	121	121	✓	✓	✓	✓	3,010	3K01	✓	✓	✓	✓
0.274	R274	✓	✓	✓	✓	5.62	5R62	✓	✓	✓	✓	133	133	✓	✓	✓	✓	3,320	3K32	✓	✓	✓	✓
0.301	R301	✓	✓	✓	✓	6.19	6R19	✓	✓	✓	✓	150	150	✓	✓	✓	✓	3,740	3K74	✓	✓	✓	✓
0.332	R332	✓	✓	✓	✓	6.81	6R81	✓	✓	✓	✓	162	162	✓	✓	✓	✓	4,020	4K02	✓	✓	✓	✓
0.374	R374	✓	✓	✓	✓	7.5	7R5	✓	✓	✓	✓	182	182	✓	✓	✓	✓	4,530	4K53	✓	✓	✓	✓
0.392	R392	✓	✓	✓	✓	8.25	8R25	✓	✓	✓	✓	200	200	✓	✓	✓	✓	4,990	4K99	✓	✓	✓	✓
0.402	R402	✓	✓	✓	✓	9.09	9R09	✓	✓	✓	✓	221	221	✓	✓	✓	✓	5,110	5K11	✓	✓	✓	✓
0.453	R453	✓	✓	✓	✓	10	10R	✓	✓	✓	✓	249	249	✓	✓	✓	✓	5,620	5K62	✓	✓	✓	✓
0.499	R499	✓	✓	✓	✓	11	11R	✓	✓	✓	✓	274	274	✓	✓	✓	✓	6,190	6K19	✓	✓	✓	✓
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