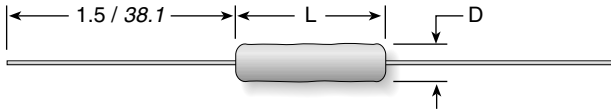


80 Series

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

RW Series

Military Grade 80 Series MIL-R-26 Qualified



Comm. Grade	Military Grade	Watts	Ohms	Dimensions (in. / mm)		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.

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

ORDERING INFORMATION

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

81NJR10

80 Series	Wattage	Tolerance	Resistance Value
Acrasil®	1 = 1W	F = 1%	R10 = 0.10Ω
Silicone Ceramic	2	J = 5%	1R0 = 1.0Ω
Conformal Axial	3		10R = 10.0Ω
Term. Wirewound	5		250 = 250Ω
	0 = 10W		1K0 = 1,000Ω
			4K5 = 4,500Ω
			50K = 50,000Ω

Military Grade

RW74U1001F

RW Series	Resistance Value	Tolerance
Military grade	R100 = 0.1Ω	F = 1%
	1R00 = 1.0Ω	J = 5%
	10R0 = 10.0Ω	
	1000 = 100Ω	1002 = 10KΩ
	1001 = 1000Ω	1503 = 150KΩ

This product will not be made available as RoHS Compliant.

For RoHS Compliant equivalent, see 40 Series.

COMMERCIAL GRADE PART NUMBERS

Ohmic value	Part No. Prefix	Wattage	Ohmic value	Part No. Prefix	Wattage	Ohmic value	Part No. Prefix	Wattage	Ohmic value	Part No. Prefix	Wattage	Ohmic value	Part No. Prefix	Wattage
Suffix	1 3 5 10	Suffix	1 3 5 10	Suffix	1 3 5 10	Suffix	1 3 5 10	Suffix	Suffix	5 10				
0.1	R10	✓	✓	✓	✓	2.21	2R21	✓	51.1	51R1	✓	27,400	27K4	✓
0.11	R11	✓	✓	✓	✓	2.49	2R49	✓	56.2	56R2	✓	30,100	30K1	✓
0.121	R121	✓	✓	✓	✓	2.74	2R74	✓	61.9	61R9	✓	33,200	33K2	✓
0.133	R133	✓	✓	✓	✓	3.01	3R01	✓	68.1	68R1	✓	37,400	37K4	✓
0.15	R15	✓	✓	✓	✓	3.32	3R32	✓	75	75R	✓	38,300	38K3	✓
0.162	R162	✓	✓	✓	✓	3.74	3R74	✓	82.5	82R5	✓	40,200	40K2	✓
0.182	R182	✓	✓	✓	✓	4.02	4R02	✓	90.9	90R9	✓	45,300	45K3	✓
0.2	R20	✓	✓	✓	✓	4.53	4R53	✓	100	100	✓	49,900	49K9	✓
0.221	R221	✓	✓	✓	✓	4.99	4R99	✓	110	110	✓	51,100	51K1	✓
0.249	R249	✓	✓	✓	✓	5.11	5R11	✓	121	121	✓	56,200	56K2	✓
0.274	R274	✓	✓	✓	✓	5.62	5R62	✓	133	133	✓	61,900	61K9	✓
0.301	R301	✓	✓	✓	✓	6.19	6R19	✓	150	150	✓	68,100	68K1	✓
0.332	R332	✓	✓	✓	✓	6.81	6R81	✓	162	162	✓	75,000	75K	✓
0.374	R374	✓	✓	✓	✓	7.5	7R5	✓	182	182	✓	82,500	82K5	✓
0.392	R392	✓	✓	✓	✓	8.25	8R25	✓	200	200	✓	90,900	90K9	✓
0.402	R402	✓	✓	✓	✓	9.09	9R09	✓	221	221	✓	100,000	100K	✓
0.453	R453	✓	✓	✓	✓	10	10R	✓	249	249	✓	150,000	150K	✓
0.499	R499	✓	✓	✓	✓	11	11R	✓	274	274	✓	200,000	200K	✓
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	R10	✓	✓	✓	✓	24.9	24R9	✓	562	562	✓			
1.1	R11	✓	✓	✓	✓	27.4	27R4	✓	619	619	✓			
1.21	R121	✓	✓	✓	✓	30.1	30R1	✓	681	681	✓			
1.330	R133	✓	✓	✓	✓	33.2	33R2	✓	750	750	✓			
1.5	R15	✓	✓	✓	✓	37.4	37R4	✓	825	825	✓			
1.62	R162	✓	✓	✓	✓	40.2	40R2	✓	909	909	✓			
1.82	R182	✓	✓	✓	✓	45.3	45R3	✓	1,000	1K0	✓			
2	R20	✓	✓	✓	✓	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