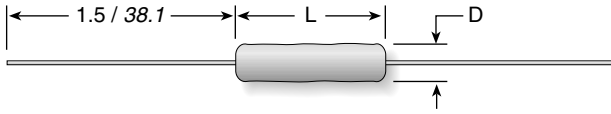


80 Series

**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 = 1000Ω	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.		Wattage				Ohmic value		Part No.		Wattage				Ohmic value		Part No.		Wattage					
Prefix	Suffix	Prefix	Suffix	1	3	5	10	Prefix	Suffix	Prefix	Suffix	1	3	5	10	Prefix	Suffix	Prefix	Suffix	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