

80 Series

Commercial Grade Acrasil[®], Silicone-Ceramic
Conformal Axial Terminal Wirewound
1% Tolerance (5% available)



RW Series

Military Grade 80 Series MIL-R-26 Qualified

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

SERIES SPECIFICATIONS

Commercial Grade	Military Grade	Watts	Ohms	Voltage
81F	RW70U	1	0.1-6K	150
82		2	0.1-8K	100
83F	RW79U	3	0.1-20K	200
83J	RW69V			
85F	RW74U	5	0.1-75K	460
85J	RW67V			
80F	RW78U	10	0.1-150K	1000
80J	RW68V			

Non-Inductive versions available. Insert "N" before tolerance code. Example: 83NF2K21

CHARACTERISTICS

Coating	Silicone-ceramic
Core	Ceramic
Terminals	Solder-coated copper clad axial
Derating	Linearly from 100% @ +25°C to 0% @ +275°C.
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

DIMENSIONS

(in./mm max.)



		Watts	Length	Diam.	Lead gauge
81F	RW70U	1	0.437 / 11.1	0.125 / 3.2	24
82		2	0.406 / 10.3	0.219 / 5.6	20
83F	RW79U	3	0.593 / 15.1	0.218 / 5.5	20
83J	RW69V				
85F	RW74U	5	0.937 / 23.8	0.343 / 8.7	18
85J	RW67V				
80F	RW78U	10	1.842 / 46.8	0.406 / 10.3	18
80J	RW68V				

(continued)

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ORDERING INFORMATION

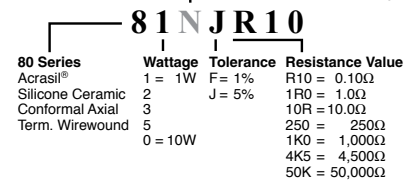
Commercial Grade (80 Series) Part Numbers

Commercial Grade (80 Series) Part Numbers					Commercial Grade (80 Series) Part Numbers					Commercial Grade (80 Series) Part Numbers					Commercial Grade (80 Series) 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	✓	✓
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	R10	✓	✓	✓	✓	24.9	24R9	✓	✓	✓	✓	562	562	✓	✓	✓	✓	12,100	12K1	✓	✓
1.1	R11	✓	✓	✓	✓	27.4	27R4	✓	✓	✓	✓	619	619	✓	✓	✓	✓	13,300	13K3	✓	✓
1.21	R121	✓	✓	✓	✓	30.1	30R1	✓	✓	✓	✓	681	681	✓	✓	✓	✓	15,000	15K	✓	✓
1.330	R133	✓	✓	✓	✓	33.2	33R2	✓	✓	✓	✓	750	750	✓	✓	✓	✓	16,200	16K2	✓	✓
1.5	R15	✓	✓	✓	✓	37.4	37R4	✓	✓	✓	✓	825	825	✓	✓	✓	✓	18,200	18K2	✓	✓
1.62	R162	✓	✓	✓	✓	40.2	40R2	✓	✓	✓	✓	909	909	✓	✓	✓	✓	20,000	20K	✓	✓
1.82	R182	✓	✓	✓	✓	45.3	45R3	✓	✓	✓	✓	1,000	1K0	✓	✓	✓	✓	22,100	22K1	✓	✓
2	R20	✓	✓	✓	✓	49.9	49R9	✓	✓	✓	✓	1,100	1K1	✓	✓	✓	✓	24,900	24K9	✓	✓

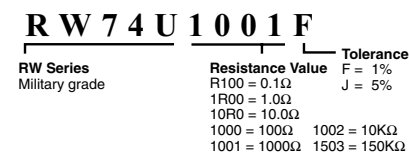
✓ = Standard values
 ✦ = Non-standard values subject to minimum handling charge per item

Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.

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



Military Grade



This product will not be made available as RoHS Compliant.

For RoHS Compliant equivalent, see 40 Series.