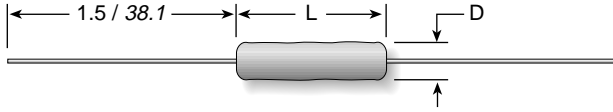


# 80 Series

Acrasil<sup>®</sup>, Silicone-Ceramic Conformal Axial Lead Wirewound Resistors  
MIL-R-26 Specifications  
1% Tolerance (5% available)



Series	Wattage	Ohms	Dimensions (in. / mm)		Voltage	Lead ga.
			Length	Diam.		
81F (RW70U)	1	0.1-6.7K	0.437 / 11.1	0.125 / 3.2	150	24
82	2	0.1-8.7K	0.406 / 10.3	0.219 / 5.6	100	20
83F (RW79U)	3	0.1-22K	0.593 / 15.1	0.218 / 5.5	200	20
83J (RW69V)						
85F (RW74U)	5	0.1-81K	0.937 / 23.8	0.343 / 8.7	460	18
85J (RW67V)						
80F (RW78U)	10	0.1-223K	1.842 / 46.8	0.406 / 10.3	1000	18
80J (RW68V)						

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

Choose Ohmite's highest quality conformal axial lead silicone-ceramic coated resistors for applications requiring high precision and stability.

The wirewound 80 Series 1% tolerance resistors have a low temperature coefficient and maintain a high degree of stability under demanding conditions.

They feature all-welded construction and have the ability to maintain accurate resistance values due to their being stabilized. High quality 80 Series resistors meet or exceed rigid MIL-R-26 specifications.

## FEATURES

- High Stability:  $\pm 0.5\%$  for 1%.
- Designed for precision power applications.
- Mil values resistors marked with "Mil" and Ohmite stock part number.
- In accordance with MIL-R-26 specifications.
- All-welded construction.

## SPECIFICATIONS

Material

**Coating:** Silicone-ceramic.

**Core:** Ceramic.

**Terminals:** Solder-coated copper clad axial lead.

**Derating:** Linearly from 100% @ +25°C to 0% @ +275°C.

Electrical

**Tolerance:**  $\pm 5\%$  (J type),  $\pm 1\%$  (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 1 ohm:  $\pm 90$  ppm/°C  
1 to 9.99 ohms:  $\pm 50$  ppm/°C  
10 ohms and over:  $\pm 20$  ppm/°C

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

## STOCK PART NUMBERS FOR STANDARD RESISTANCE VALUES

Ohmic value		Wattage		Ohmic value		Wattage		Ohmic value		Wattage		Ohmic value		Wattage	
Part No. Prefix Suffix	1 3 5 10	Part No. Prefix Suffix	1 3 5 10	Part No. Prefix Suffix	1 3 5 10	Part No. Prefix Suffix	1 3 5 10	Part No. Prefix Suffix	1 3 5 10	Part No. Prefix Suffix	5 10	Part No. Prefix Suffix	5 10		
0.1 ---R10	✓	2.74 ---2R74	✓	75 ---75R	✓	2,210 ---2K21	✓	51,100 ---51K1	✓						
0.11 ---R11	✓	3.01 ---3R01	✓	82.5 ---82R5	✓	2,490 ---2K49	✓	56,200 ---56K2	✓						
0.121 ---R121	✓	3.32 ---3R32	✓	90.9 ---90R9	✓	2,740 ---2K74	✓	61,900 ---61K9	✓						
0.133 ---R133	✓	3.74 ---3R74	✓	100 ---100	✓	3,010 ---3K01	✓	68,100 ---68K1	✓						
0.15 ---R15	✓	4.02 ---4R02	✓	110 ---110	✓	3,320 ---3K32	✓	75,000 ---75K	✓						
0.162 ---R162	✓	4.53 ---4R53	✓	121 ---121	✓	3,740 ---3K74	✓	82,500 ---82K5	✓						
0.182 ---R182	✓	4.99 ---4R99	✓	133 ---133	✓	4,020 ---4K02	✓	90,900 ---90K9	✓						
0.2 ---R20	✓	5.11 ---5R11	✓	150 ---150	✓	4,530 ---4K53	✓	100,000 ---100K	✓						
0.221 ---R221	✓	5.62 ---5R62	✓	162 ---162	✓	4,990 ---4K99	✓	150,000 ---150K	✓						
0.249 ---R249	✓	6.19 ---6R19	✓	182 ---182	✓	5,110 ---5K11	✓	200,000 ---200K	✓						
0.274 ---R274	✓	6.81 ---6R81	✓	200 ---200	✓	5,620 ---5K62	✓								
0.301 ---R301	✓	7.5 ---7R5	✓	221 ---221	✓	6,190 ---6K19	✓								
0.332 ---R332	✓	8.25 ---8R25	✓	249 ---249	✓	6,810 ---6K81	✓								
0.374 ---R374	✓	9.09 ---9R09	✓	274 ---274	✓	7,500 ---7K5	✓								
0.392 ---R392	✓	10 ---10R	✓	301 ---301	✓	8,250 ---8K25	✓								
0.402 ---R402	✓	11 ---11R	✓	332 ---332	✓	9,090 ---9K09	✓								
0.453 ---R453	✓	12.1 ---12R1	✓	374 ---374	✓	10,000 ---10K	✓								
0.499 ---R499	✓	13.3 ---13R3	✓	402 ---402	✓	10,500 ---10K5	✓								
0.511 ---R511	✓	15 ---15R	✓	453 ---453	✓	11,000 ---11K	✓								
0.562 ---R562	✓	16.2 ---16R2	✓	499 ---499	✓	12,100 ---12K1	✓								
0.619 ---R619	✓	18.2 ---18R2	✓	511 ---511	✓	13,300 ---13K3	✓								
0.681 ---R681	✓	20 ---20R	✓	562 ---562	✓	15,000 ---15K	✓								
0.75 ---R75	✓	22.1 ---22R1	✓	619 ---619	✓	16,200 ---16K2	✓								
0.825 ---R825	✓	24.9 ---24R9	✓	681 ---681	✓	18,200 ---18K2	✓								
0.909 ---R909	✓	27.4 ---27R4	✓	750 ---750	✓	20,000 ---20K	✓								
1 ---1R0	✓	30.1 ---30R1	✓	825 ---825	✓	22,100 ---22K1	✓								
1.1 ---1R1	✓	33.2 ---33R2	✓	909 ---909	✓	24,900 ---24K9	✓								
1.21 ---1R21	✓	37.4 ---37R4	✓	1,000 ---1K0	✓	27,400 ---27K4	✓								
1.330 ---1R33	✓	40.2 ---40R2	✓	1,100 ---1K1	✓	30,100 ---30K1	✓								
1.5 ---1R5	✓	45.3 ---45R3	✓	1,210 ---1K21	✓	33,200 ---33K2	✓								
1.62 ---1R62	✓	49.9 ---49R9	✓	1,330 ---1K33	✓	37,400 ---37K4	✓								
1.82 ---1R82	✓	51.1 ---51R1	✓	1,500 ---1K5	✓	38,300 ---38K3	✓								
2 ---2R0	✓	56.2 ---56R2	✓	1,620 ---1K62	✓	40,200 ---40K2	✓								
2.21 ---2R21	✓	61.9 ---61R9	✓	1,820 ---1K82	✓	45,300 ---45K3	✓								
2.49 ---2R49	✓	68.1 ---68R1	✓	2,000 ---2K0	✓	49,900 ---49K9	✓								

+ = Most popular stock values  
 ✓ = Stock values  
 ✖ = Non-stock 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.