

Choose Ohmite's highest quality conformed 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 no.
- In accordance with MIL-R-26 specifications.
- All-welded construction.
- RoHS compliant product available Jan. 2006 Add "E" suffix to part number to specify.

## 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:

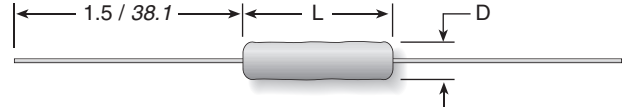
Under 1 $\Omega$ :  $\pm 90$  ppm/°C  
1 to 9.99 $\Omega$ :  $\pm 50$  ppm/°C  
10 $\Omega$  and over:  $\pm 20$  ppm/°C

### Dielectric withstanding voltage:

500 VAC: 1 watt rating  
1000 VAC: 2, 3, 5, 7 and 10 watt rating

# 80 Series

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



Series	Wattage	Ohms	Dimensions (in. / mm)		Lead	
			Length	Diam.	Voltage	ga.
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

## STOCK PART NUMBERS FOR STANDARD RESISTANCE VALUES

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	✓	+	+	+	2.74	R274	✓	✓	✓	✓	75	R75R	✓	+	+	+	2,210	R2K21	✓	✓
0.11	R11	✓	✓	✓	✓	3.01	R301	✓	✓	✓	✓	82.5	R82R5	✓	✓	✓	✓	2,490	R2K49	✓	✓
0.121	R121	✓	✓	✓	✓	3.32	R332	✓	✓	✓	✓	90.9	R90R9	✓	✓	✓	✓	2,740	R2K74	✓	✓
0.133	R133	✓	+	+	+	3.74	R374	✓	✓	✓	✓	100	R100	✓	✓	✓	✓	3,010	R3K01	✓	✓
0.15	R15	✓	✓	+	+	4.02	R402	✓	✓	✓	✓	110	R110	✓	✓	✓	✓	3,320	R3K32	✓	✓
0.162	R162	✓	+	+	+	4.53	R453	✓	✓	✓	✓	121	R121	✓	✓	✓	✓	3,740	R3K74	✓	✓
0.182	R182	✓	✓	✓	✓	4.99	R499	✓	✓	✓	✓	133	R133	✓	+	+	+	4,020	R4K02	✓	✓
0.2	R20	✓	+	+	+	5.11	R511	✓	✓	✓	✓	150	R150	✓	✓	✓	✓	4,530	R4K53	✓	+
0.221	R221	✓	✓	✓	✓	5.62	R562	✓	✓	✓	✓	162	R162	✓	✓	✓	✓	4,990	R4K99	✓	✓
0.249	R249	✓	✓	✓	✓	6.19	R619	✓	✓	✓	✓	182	R182	✓	✓	✓	✓	5,110	R5K11	✓	✓
0.274	R274	✓	✓	✓	✓	6.81	R681	✓	✓	✓	✓	200	R200	✓	✓	✓	✓	5,620	R5K62	✓	✓
0.301	R301	✓	✓	✓	✓	7.5	R75	✓	✓	✓	✓	221	R221	✓	✓	✓	✓	6,190	R6K19	✓	✓
0.332	R332	✓	+	+	+	8.25	R825	✓	✓	+	+	249	R249	✓	✓	✓	✓	6,810	R6K81	✓	✓
0.374	R374	✓	+	+	+	9.09	R909	✓	✓	✓	✓	274	R274	✓	✓	+	+	7,500	R7K5	✓	+
0.392	R392	✓	✓	✓	✓	10	R10R	✓	✓	✓	✓	301	R301	✓	✓	✓	✓	8,250	R8K25	✓	✓
0.402	R402	✓	✓	✓	✓	11	R11R	✓	✓	✓	✓	332	R332	✓	✓	✓	✓	9,090	R9K09	+	+
0.453	R453	✓	✓	✓	✓	12.1	R12R1	✓	✓	✓	✓	374	R374	✓	✓	✓	✓	10,000	R10K	✓	✓
0.499	R499	✓	+	+	+	13.3	R13R3	✓	+	+	+	402	R402	✓	✓	✓	✓	10,500	R10K5	✓	+
0.511	R511	✓	✓	+	+	15	R15R	✓	✓	+	+	453	R453	✓	✓	✓	✓	11,000	R11K	✓	+
0.562	R562	✓	✓	✓	✓	16.2	R16R2	✓	+	+	+	499	R499	✓	✓	✓	✓	12,100	R12K1	+	+
0.619	R619	✓	✓	✓	✓	18.2	R18R2	✓	✓	✓	✓	511	R511	✓	✓	✓	✓	13,300	R13K3	+	+
0.681	R681	✓	✓	✓	✓	20	R20R	✓	✓	✓	✓	562	R562	✓	✓	✓	✓	15,000	R15K	✓	✓
0.75	R75	✓	+	+	+	22.1	R22R1	✓	✓	✓	✓	619	R619	✓	✓	✓	✓	16,200	R16K2	+	+
0.825	R825	✓	✓	✓	✓	24.9	R24R9	✓	✓	✓	✓	681	R681	✓	✓	✓	✓	18,200	R18K2	+	+
0.909	R909	✓	✓	+	+	27.4	R27R4	✓	✓	✓	✓	750	R750	✓	✓	✓	✓	20,000	R20K	✓	✓
1	R10	✓	✓	✓	✓	30.1	R30R1	✓	✓	✓	✓	825	R825	✓	✓	✓	✓	22,100	R22K1	✓	✓
1.1	R11	✓	✓	✓	✓	33.2	R33R2	✓	✓	✓	✓	909	R909	✓	✓	✓	✓	24,900	R24K9	✓	✓
1.21	R121	✓	✓	✓	✓	37.4	R37R4	✓	✓	+	+	1,000	R1K0	✓	✓	✓	✓	27,400	R27K4	✓	✓
1.330	R133	✓	+	+	+	40.2	R40R2	✓	✓	✓	✓	1,100	R1K1	✓	✓	✓	✓	30,100	R30K1	✓	✓
1.5	R15	✓	✓	✓	✓	45.3	R45R3	✓	✓	✓	✓	1,210	R1K21	✓	✓	✓	✓	33,200	R33K2	✓	✓
1.62	R162	✓	+	+	+	49.9	R49R9	✓	✓	✓	✓	1,330	R1K33	✓	+	+	+	37,400	R37K4	+	+
1.82	R182	✓	✓	✓	✓	51.1	R51R1	✓	✓	✓	✓	1,500	R1K5	✓	✓	✓	+	38,300	R38K3	✓	+
2	R20	✓	✓	✓	✓	56.2	R56R2	✓	✓	✓	✓	1,620	R1K62	✓	+	+	+	40,200	R40K2	✓	✓
2.21	R221	✓	✓	✓	✓	61.9	R61R9	✓	✓	✓	✓	1,820	R1K82	✓	✓	✓	✓	45,300	R45K3	✓	✓
2.49	R249	✓	✓	✓	✓	68.1	R68R1	✓	✓	✓	✓	2,000	R2K0	✓	✓	✓	✓	49,900	R49K9	✓	✓