

# 89 Series

## Metal-Mite® Aluminum Housed Axial Terminal Wirewound, 1% Tolerance



The 89 Series is a high-performance axial type resistor. These molded-construction metal-housed resistors are available in higher power ratings than standard axial resistors and are better suited to withstanding vibration, shock and harsh environmental conditions.

The 89 Series Metal-Mite® resistors are aluminum housed to maintain high stability during operation and to permit secure mounting to chassis surfaces.

The metal housing also provides heat-sinking capabilities.

### FEATURES

- High Stability:  $\pm 0.5\% \Delta R$
- High power to size ratio
- Metal housing allows chassis mounting and provides heat sink capability

### SERIES SPECIFICATIONS

Series	Wattage	Ohms	Voltage
805	5	0.10-25K	210
810	10	0.10-50K	320
825	25	0.010-75K	520
850	50	0.005-100K	1170

Non-Inductive versions available. Insert "N" before tolerance code.  
Example: 850NF560

### CHARACTERISTICS

<b>Housing</b>	Metal, anodized aluminum
<b>Internal Coating</b>	Silicone
<b>Core</b>	Ceramic
<b>Terminals</b>	Solder-coated axial
<b>Derating</b>	Linearly from 100% @ +25°C to 0% @ +275°C.
<b>Tolerance</b>	$\pm 1\%$ and $\pm 5\%$ (other tolerances available).
<b>Power rating</b>	Rating is based on chassis mounting area and temperature stability. Proper heat sink as follows: 5W and 10W units, 4" x 6" x 2" x .040" Aluminum chassis; 25W units, 5" x 7" x 2" x .040" Aluminum chassis; 50W units, 12" x 12" x .059" Aluminum panel.
<b>Maximum ohmic values</b>	See chart.
<b>Overload</b>	5 times rated wattage for 5 seconds.
<b>Temperature coefficient</b>	Under 1 $\Omega$ : $\pm 90$ ppm/°C; 1 to 9.99 $\Omega$ : $\pm 50$ ppm/°C; 10 $\Omega$ and over: $\pm 20$ ppm/°C.
<b>Dielectric withstanding voltage</b>	5W and 10W rating, 1000 VAC; 25 and 50W ratings, 2250 VAC.

(continued)

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### DIMENSIONS

(in./mm)



Dimensions have changed as of August 2015

	A max.	B max.	C max.	D max.	E max.	F ±.3mm	G ±.3mm	H max.	J max.	K max.	L ±.25mm
805	0.65" / 16.5	1.18" / 30.0	0.35" / 8.8	0.33" / 8.5	0.63" / 15.9	0.44" / 11.3	0.49" / 12.4	0.18" / 4.5	0.09" / 2.4	0.07" / 1.8	0.09" / 2.4
810	0.83" / 21.0	1.44" / 36.5	0.43" / 11.0	0.44" / 11.2	0.78" / 19.9	0.56" / 14.3	0.63" / 15.9	0.22" / 5.5	0.11" / 2.8	0.07" / 1.8	0.09" / 2.4
825	1.10" / 28.0	2.01" / 51.0	0.58" / 14.8	0.56" / 14.2	1.07" / 27.3	0.72" / 18.3	0.78" / 19.8	0.30" / 7.7	0.20" / 5.2	0.10" / 2.6	0.13" / 3.2
850	1.10" / 28.0	2.85" / 72.5	0.58" / 14.8	0.56" / 14.2	1.93" / 49.1	1.56" / 39.7	0.84" / 21.4	0.33" / 8.4	0.20" / 5.2	0.10" / 2.6	0.13" / 3.2

### ORDERING INFORMATION

Ohmic value	Wattage				Ohmic value	Wattage				Ohmic value	Wattage					
	Part No. Prefix	5	10	25		50	Part No. Prefix	5	10		25	50	Part No. Prefix	5	10	25
0.005	R005			✓	✓	20	20R	✓	✓	✓	1,500	1K5	✓	✓	✓	✓
0.010	R010			✓	✓	25	25R	✓	✓	✓	2,000	2K0	✓	✓	✓	✓
0.025	R025			✓	✓	30	30R	✓	✓	✓	2,500	2K5	✓	✓	✓	✓
0.1	R10			✓	✓	40	40R	✓	✓	✓	3,000	3K0	✓	✓	✓	✓
0.3	R30			✓	✓	50	50R	✓	✓	✓	3,500	3K5	✓	✓	✓	✓
0.5	R50			✓	✓	75	75R	✓	✓	✓	4,000	4K0	✓	✓	✓	✓
0.7	R70			✓	✓	100	100	✓	✓	✓	4,500	4K5	✓	✓	✓	✓
1.0	1R0	✓	✓	✓	✓	150	150	✓	✓	✓	5,000	5K0	✓	✓	✓	✓
1.5	1R5	✓	✓	✓	✓	200	200	✓	✓	✓	6,000	6K0	✓	✓	✓	✓
2.0	2R0	✓	✓	✓	✓	250	250	✓	✓	✓	10,000	10K	✓	✓	✓	✓
3.0	3R0	✓	✓	✓	✓	300	300	✓	✓	✓	15,000	15K	✓	✓	✓	✓
4.0	4R0	✓	✓	✓	✓	400	400	✓	✓	✓	20,000	20K	✓	✓	✓	✓
5.0	5R0	✓	✓	✓	✓	500	500	✓	✓	✓	25,000	25K	✓	✓	✓	✓
10.0	10R	✓	✓	✓	✓	750	750	✓	✓	✓	50,000	50K	✓	✓	✓	✓
15.0	15R	✓	✓	✓	✓	1,000	1K0	✓	✓	✓	75,000	75K	✓	✓	✓	✓
											100,000	100K	✓	✓	✓	✓

Non-Inductive Winding  
Optional (blank = std. winding)    RoHS Compliant

805NF5R0E

Series: 805 = 5 Watt, 810 = 10 watt, 825 = 25 watt, 850 = 50 watt  
Tolerance: F = 1%, J = 5%  
Ohms: R005 = 0.005Ω, R10 = 0.1Ω, 1R0 = 1.0Ω, 250 = 250Ω, 1K0 = 1,000Ω, 1K5 = 1,500Ω, 25K = 25,000Ω

✓ = 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.

As of September 2006, the 89 Series is no longer offered as Mil. Spec.

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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