

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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: ±0.5% ΔR
- · 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				
Housing	Metal, anodized aluminum			
Internal Coating	Silicone			
Core	Ceramic			
Terminals	Solder-coated axial			
Derating	Linearly from 100% @ +25°C to 0% @ +275°C.			
Tolerance	±1% and ±5% (other tolerances available).			
Power rating	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.			
Maximum ohmic values	See chart.			
Overload	5 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	5W and 10W rating,1000 VAC; 25 and 50W ratings, 2250 VAC.			

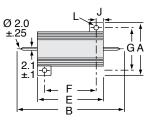
(continued)

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DIMENSIONS

(in./mm)



Dimensions have changed as of August 2015



	Α	В	C	D	E	F	G	Н	J	K	L
	max.	max.	max.	max.	max.	±.3mm	±.3mm	max.	max.	max.	±.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				
	URDERIN	GINFURMATIU	N	
Wattage	Wattage	Wattage		
Ohmic value Part No.	Ohmic value Comparison	Ohmic value Soft	Non-Inductive Winding Optional (blank = std. winding) RoHS Compliant F 5 R 0 E	
0.005—R005	20 —20R 🗸 🗸	1,500 —1K5 ✓ ↔ ↔ ✓	Series Tolerance Ohms	
0.010—R010 🗸 🗸	25 —25R V V V	2,000 —2K0 ✓ ✓ ↔ ↔	805 = 5 Watt F = 1% R005 = 0.005Ω 810 = 10 watt J = 5% R10 = 0.1Ω	
0.025—R025	30 ──30R ◆ ◆	2,500 —2K5 ✔ ✔	825 = 25 watt $1R0 = 0.102$	
0.1 —R10 V	40 —40R ↔ ✓	3,000 —3K0 ↔ ✓ ✓ ↔	$850 = 50 \text{ watt}$ $250 = 250\Omega$	
0.3 —R30	50 —50R V V V	3,500 —3K5 <u>◆</u> ◆	1K0 = 1,000Ω 1K5 = 1,500Ω	
0.5 —R50	75 —75R ✓ ↔ ✓ ✓	4,000 —4K0 🗸 🗸	$25K = 25,000\Omega$	
0.7 —R70 • •	100 —100 V V V	4,500 —4K5 ◆ ◆	✓ = Standard values	
1.0 —1R0 VVV	150 —150 🗸 🗸 🗸	5,000 —5K0 V V V	= Non-standard values subject to minimum	
1.5 ——1R5 💠 🗸	200 —200 • • •	6,000 —6K0 ◆ ◆	handling charge per item	
2.0 —2R0 ↔ ✓ ✓	250 —250 V V V	10,000 —10K ✓ ❖ ✓ ✓	Shaded values involve very fine resistance wire and should not be used in critical applications	
3.0 —3R0 V V V	300 ─300 ✔ ❖	15,000 —15K ✓ ✓ ❖ ❖	without burn-in and/or thermal cycling.	
4.0 ──4R0 💠 🗸	400 —400 • •	20,000 —20K • •	willout barn in alla, or thornar byoling.	
5.0 — 5R0 / / /	500 —500 v • v v	25,000 —25K ✓ ↔ ↔ ❖		
10.0 —10R / / /	750 —750 + + /	50,000 —50K ♣		
15.0 —15R / / /	│ 1,000 —1K0 ↔ ✓ ✓ ✓	75,000 — 75K •		
		100,000 ──100K ◆		

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

OHMITE