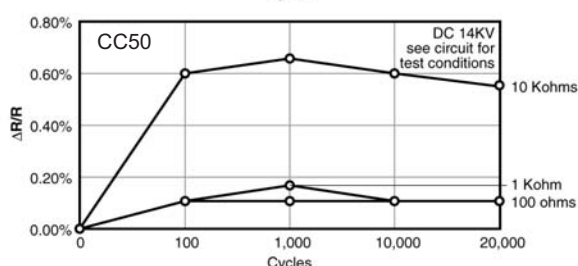
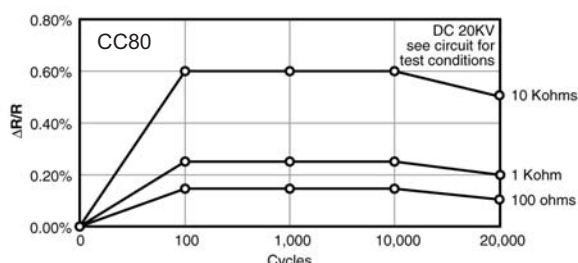
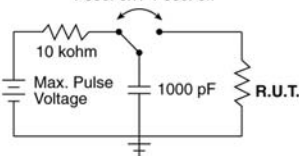


CC50 Series Ceramic composition CC80 Series Ceramic composition

RESISTANCE TO PULSE



1 sec. on / 1 sec. off



14KV and 20KV values used in circuit as shown; full voltage not applied directly to resistor.

PERFORMANCE CHARACTERISTICS

Test	CC50	CC80
Max Working Voltage	300V	400V
Dielectric Strength	500V	700V
Max Overload Voltage	600V	800V
Max Pulse Voltage ¹	14KV	20KV
Pulse Tolerance, 100 pulses	1240V @ 52μF, 40J/ 35 sec.	1640V @ 52μF, 70J/35 sec.

Test	Condition	Maximum ΔR
Life Test	MIL-STD-202, Method 108	±5%
Short Time Overload	2x rated V, 5 sec ON @ 70°C	±(2% + 0.05ohm)
Resistance to Pulse ¹ 20,000 cycles	see circuit for test conditions	±5%
Thermal Shock	MIL-STD-202, Method 107	±(2% ± 0.05 ohm)
Moisture Resistance	1000 hrs @ 40°C, 90 - 95% RH	±5%

¹See figures, left

Series	Watts max.*	Resistance min. max.		Dimensions (in. / mm)		Lead diameter	Joules max.**	Max Working volts
				Length L max.	Diameter D			
CC50	1	3.3	100K	0.67 / 17.0	0.217 ±.05/5.5±1	0.031 / 0.8	50	300
CC80	2	3.3	1M	0.89 / 22.6	0.276 ±.05/7.0±1	0.031 / 0.8	80	400

* at 70°C. **For a single impulse.

The CC50 & CC80 Series of fixed ceramic resistors are ideal for circuitry associated with surges, high peak power or high energy. They offer enhanced performance in high voltage power supplies, R-C snubber circuits, and inrush limiters. The CC50 & CC80 resistors can often replace carbon composition resistors which can be difficult to source.

FEATURES

- Replaces 1 and 2 watt carbon composition resistors
- Meets high energy density demands
- High peak power
- 10% Tolerance

SPECIFICATIONS

Material

Terminals: Pb Free Solder-coated axial

Coating: UL-94 V0 approved silicone

Derating: Linear from 100% @ +70°C to 0% @ +200°C

Electrical

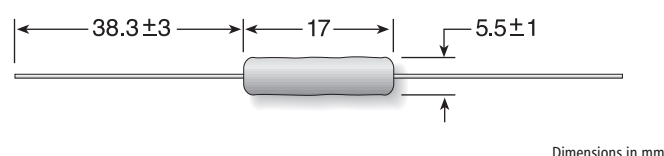
Tolerance: ±10% standard

Power Rating: Based on 70°C free air rating.

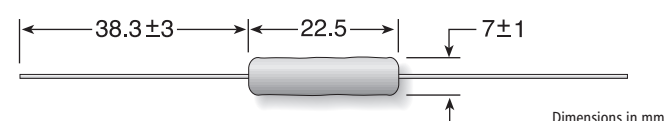
Temperature Coefficient:

-1300 ±300ppm/°C

CC50 size



CC80 size



STANDARD PART NUMBERS																			
Ohmic value	Part No.		Wattage		Ohmic value	Part No.		Wattage		Ohmic value	Part No.		Wattage		Ohmic value	Part No.		Wattage	
	Prefix Suffix		1 2			1 2	Prefix Suffix		1 2			1 2	Prefix Suffix			1 2		1 2	Prefix Suffix
3.3	—33GKE	✓	✓		27	—270KE	✓	✓		220	—221KE	✓	✓		1800	—182KE	✓	✓	
3.9	—39GKE	✓	✓		33	—330KE	✓	✓		270	—271KE	✓	✓		2200	—222KE	✓	✓	
4.7	—47GKE	✓	✓		39	—390KE	✓	✓		330	—331KE	✓	✓		2700	—272KE	✓	✓	
5.6	—56GKE	✓	✓		47	—470KE	✓	✓		390	—391KE	✓	✓		3300	—332KE	✓	✓	
6.8	—68GKE	✓	✓		56	—560KE	✓	✓		470	—471KE	✓	✓		3900	—392KE	✓	✓	
8.2	—82GKE	✓	✓		68	—680KE	✓	✓		560	—561KE	✓	✓		4700	—472KE	✓	✓	
10	—100KE	✓	✓		82	—820KE	✓	✓		680	—681KE	✓	✓		5600	—562KE	✓	✓	
12	—120KE	✓	✓		100	—101KE	✓	✓		820	—821KE	✓	✓		6800	—682KE	✓	✓	
15	—150KE	✓	✓		120	—121KE	✓	✓		1000	—102KE	✓	✓		8200	—822KE	✓	✓	
18	—180KE	✓	✓		150	—151KE	✓	✓		1200	—122KE	✓	✓		10000	—103KE	✓	✓	
22	—220KE	✓	✓		180	—181KE	✓	✓		1500	—152KE	✓	✓		12000	—123KE	✓	✓	



RHOPOINT
COMPONENTS
PRECISION IN ELECTRONICS

Rhopoint Components. Hurst Green, Oxted, Surrey RH8 9AX. UK
Sales: +44 (0) 870 608 1188 Fax: +44 (0) 870 241 2255
Email: sales@rhopointcomponents.com
Website: www.rhopointcomponents.com



Call +44 (0) 870 608 1188 or Email technical@rhopointcomponents.com