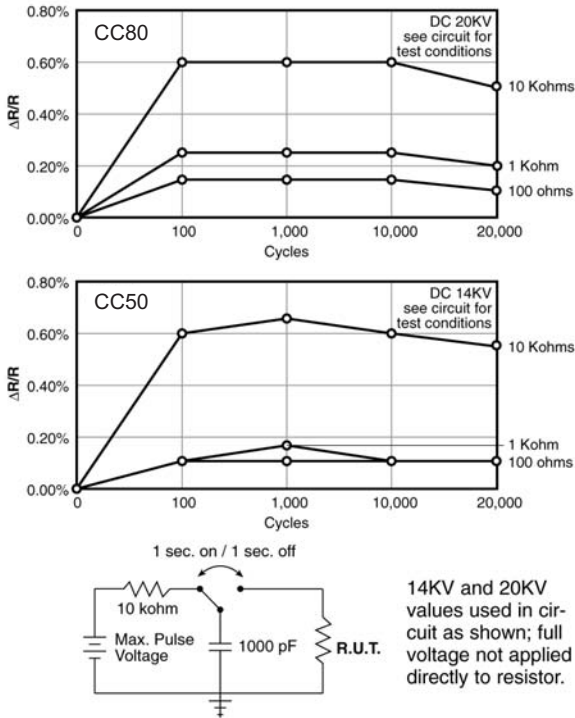


CC50 Series Ceramic composition CC80 Series Ceramic composition

RESISTANCE TO PULSE



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

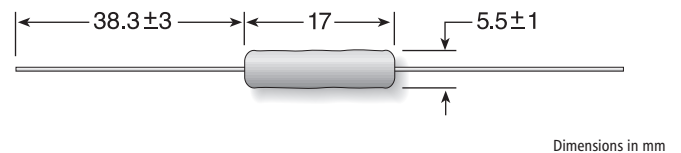
PERFORMANCE CHARACTERISTICS

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.

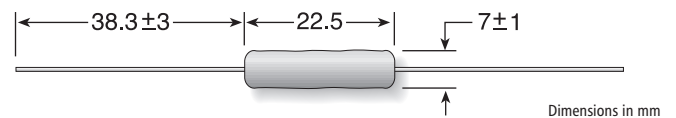
Test	Condition	Maximum ΔR
Life Test	MIL-STD-202, Method 108	±5%
Short Time Overload	2x rated V, 5 sec ON @ 70°C	±(2% + 0.05ohm)
Resistance to Pulse ¹ 20,000 cycles	see circuit for test conditions	±5%
Thermal Shock	MIL-STD-202, Method 107	±(2% ± 0.05 ohm)
Moisture Resistance	1000 hrs @ 40°C, 90 - 95%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

¹See figures, left

CC50 size



CC80 size



Series	Watts max.*	Resistance		Dimensions (in. / mm)		Lead diameter	Joules max.**	Max Working volts
		min.	max.	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.



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STANDARD PART NUMBERS																												
Ohmic value	Part No.		Wattage		Ohmic value	Part No.		Wattage		Ohmic value	Part No.		Wattage		Ohmic value	Part No.		Wattage		Ohmic value	Part No.		Wattage					
	Prefix	Suffix	1	2		Prefix	Suffix	1	2		Prefix	Suffix	1	2		Prefix	Suffix	1	2		Prefix	Suffix	1	2	Prefix	Suffix	1	2
3.3	—	33GKE	✓	✓	27	—	270KE	✓	✓	220	—	221KE	✓	✓	1800	—	182KE	✓	✓	15000	—	153KE	✓	✓	120000	—	124KE	✓
3.9	—	39GKE	✓	✓	33	—	330KE	✓	✓	270	—	271KE	✓	✓	2200	—	222KE	✓	✓	18000	—	183KE	✓	✓	150000	—	154KE	✓
4.7	—	47GKE	✓	✓	39	—	390KE	✓	✓	330	—	331KE	✓	✓	2700	—	272KE	✓	✓	22000	—	223KE	✓	✓	180000	—	184KE	✓
5.6	—	56GKE	✓	✓	47	—	470KE	✓	✓	390	—	391KE	✓	✓	3300	—	332KE	✓	✓	27000	—	273KE	✓	✓	220000	—	224KE	✓
6.8	—	68GKE	✓	✓	56	—	560KE	✓	✓	470	—	471KE	✓	✓	3900	—	392KE	✓	✓	33000	—	333KE	✓	✓	270000	—	274KE	✓
8.2	—	82GKE	✓	✓	68	—	680KE	✓	✓	560	—	561KE	✓	✓	4700	—	472KE	✓	✓	39000	—	393KE	✓	✓	330000	—	334KE	✓
10	—	100KE	✓	✓	82	—	820KE	✓	✓	680	—	681KE	✓	✓	5600	—	562KE	✓	✓	47000	—	473KE	✓	✓	390000	—	394KE	✓
12	—	120KE	✓	✓	100	—	101KE	✓	✓	820	—	821KE	✓	✓	6800	—	682KE	✓	✓	56000	—	563KE	✓	✓	470000	—	474KE	✓
15	—	150KE	✓	✓	120	—	121KE	✓	✓	1000	—	102KE	✓	✓	8200	—	822KE	✓	✓	68000	—	683KE	✓	✓	560000	—	564KE	✓
18	—	180KE	✓	✓	150	—	151KE	✓	✓	1200	—	122KE	✓	✓	10000	—	103KE	✓	✓	82000	—	823KE	✓	✓	680000	—	684KE	✓
22	—	220KE	✓	✓	180	—	181KE	✓	✓	1500	—	152KE	✓	✓	12000	—	123KE	✓	✓	100000	—	104KE	✓	✓	820000	—	824KE	✓
																									1 MEG	—	105KE	✓



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