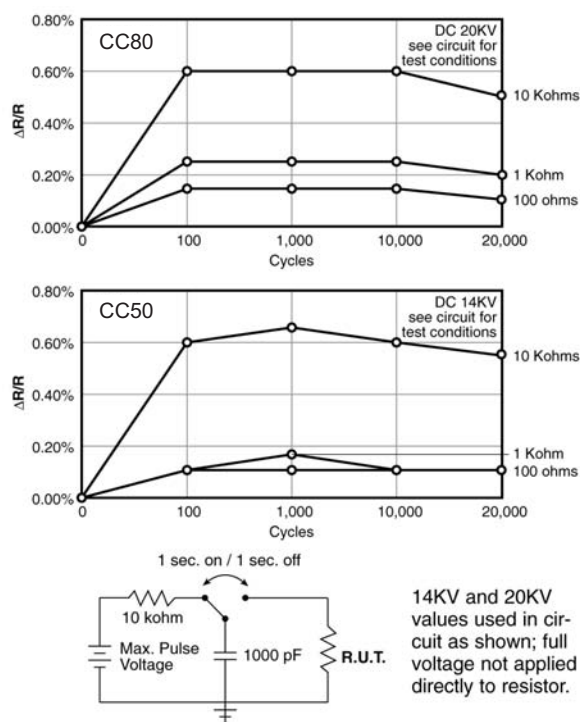


CC50 Series Ceramic composition CC80 Series Ceramic composition

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

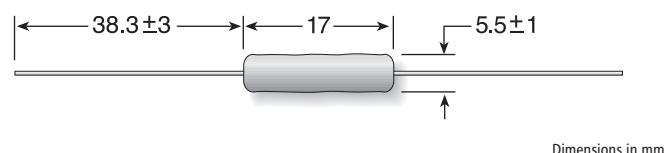
PERFORMANCE CHARACTERISTICS

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.

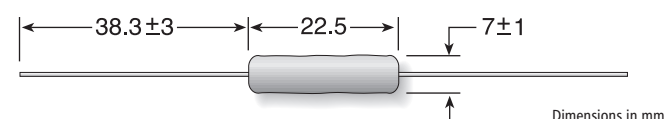
Test	Condition	Maximum ΔR
Life Test	MIL-STD-202, Method 108	±5%
Short Time Overload	2x rated V, 5 sec ON @ 70°C	±(2% + 0.05ohm)
Resistance to Pulse ¹ 20,000 cycles	see circuit for test conditions	±5%
Thermal Shock	MIL-STD-202, Method 107	±(2% ± 0.05 ohm)
Moisture Resistance	1000 hrs @ 40°C, 90 - 95%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

¹See figures, left

CC50 size



CC80 size



Dimensions (in. / mm)

Series	Watts max.*	Resistance min.	Resistance max.	Length L max.	Diameter D	Lead diameter	Joules max.**	Max Working volts
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.

[illegible]

PRECISION IN ELECTRONICS

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