



## DISC RESISTORS

**Disc Resistors** are available in a wide variety of diameters to meet your application needs. The resistor discs are utilized for capacitor charge and discharge, crowbar, impulse duty areas, electrical transmission, AC/DC motor drives, and dynamic braking systems. These ceramic composition resistors perform well where high peak power or high energy pulses are required to be handled. These non-inductive resistors are able to dissipate the energy uniformly through the entire resistor body.

<b>ZIRCONIA</b> Material Code – 83	<b>Part Number</b>	<b>Diameter</b>	<b>Length</b>	<b>Low</b>	<b>High</b>	<b>Power</b>	<b>Energy</b>	<b>Voltage</b>
	<b>ZIRCONIA</b>	<b>Inches</b>	<b>Inches</b>	<b>Ohms</b>	<b>Ohms</b>	<b>Watts</b>	<b>joules</b>	<b>Maximum</b>
	83-DCA	1.950	0.5	0.150	660	8	7,168	5,000
	83-DCB	1.950	1.0	0.300	1,300	15	14,335	10,000
	83-DEA	3.500	0.5	0.050	200	15	23,091	5,000
	83-DEB	3.500	1.0	0.100	400	30	46,182	10,000
	83-DFA	4.380	0.5	0.040	130	15	36,162	5,000
	83-DFB	4.380	1.0	0.080	260	35	72,324	10,000

<b>ORGANIC</b> Material Code – 84	<b>Part Number</b>	<b>Diameter</b>	<b>Length</b>	<b>Low</b>	<b>High</b>	<b>Power</b>	<b>Energy</b>	<b>Voltage</b>
	<b>ORGANIC</b>	<b>Inches</b>	<b>Inches</b>	<b>Ohms</b>	<b>Ohms</b>	<b>Watts</b>	<b>joules</b>	<b>Maximum</b>
	84-DCA	2.100	0.5	0.007	117 Meg	8	161	4,000
	84-DCB	2.100	1.0	0.001	235 Meg	15	321	8,000
	84-DEA	3.750	0.5	0.002	36 Meg	15	525	4,000
	84-DEB	3.750	1.0	0.004	72 Meg	30	1,049	8,000
	84-DFA	4.630	0.5	0.002	23 Meg	20	798	4,000
	84-DFB	4.630	1.0	0.004	47 Meg	40	1,596	8,000

<b>ALUMINA</b> Material Code – 85	<b>Part Number</b>	<b>Diameter</b>	<b>Length</b>	<b>Low</b>	<b>High</b>	<b>Power</b>	<b>Energy</b>	<b>Voltage</b>
	<b>ALUMINA</b>	<b>Inches</b>	<b>Inches</b>	<b>Ohms</b>	<b>Ohms</b>	<b>Watts</b>	<b>joules</b>	<b>Maximum</b>
	85-DCA	2.00	0.5	0.150	660	8	7,168	5,000
	85-DCB	2.00	1.0>	0.300	1,300	15	14,335	10,000
	85-DEA	3.60	0.5	0.050	200	15	23,091	5,000
	85-DEB	3.60	1.0	0.100	400	30	>46,182	10,000
	85-DFA	4.45	0.5	0.040	130	15	36,162	5,000
	85-DFB	4.45	1.0	0.080	260	35	72,324	10,000

Part Number plus the Resistance Code is used for specifying a particular part.

- The Resistance code is defined by the first two numbers of the resistance value, followed by a single number multiplier.
- The resistance tolerance (20% is L, 10% is K, 5% is J). When the resistance is less than 10 ohms, the multiplier is not used and replaced by an “R”.

For example, the following would be qualified as:

- 3.50” x 1.0” Ceramic Zirconia Resistor Disc at 100 ohms +/- 5%
- 3.75” x 0.5” Organic Resistor Disc at 10,000 ohms +/- 20%
- 3.60” x 1.0” Ceramic Alumina Resistor Disc at 100 ohms +/-10%

83-DEB-101J  
 84-DEA-103L  
 85-DEA-101K

