



1016 DeLaum Road • St. Marys, PA 15857

P: 814.781.7679 • F: 814.834.9370

www.usresistor.com

RESISTOR WASHERS

Resistor Washers are available in a wide variety of diameters to meet your application needs. The washers 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. They can be stacked together, forming a large resistor assembly, to dissipate large amounts of energy. The Contact Surface can be applied using either Aluminum or Brass Materials. An Anti-track coating is available for on the OD and ID of the resistor washers between the contact surfaces.

	Part Number	Diameter	I.D.	Length*	Low	High	Power	Energy	Voltage
	<i>ZIRCONIA</i>	<i>Inches</i>	<i>Inches</i>	<i>Inches</i>	<i>Ohms</i>	<i>Ohms</i>	<i>Watts</i>	<i>joules</i>	<i>Maximum</i>
ZIRCONIA Material Code – 83	83-WAAZ	1.100	0.64	0.5	0.800	3,100	4	1,509	5,000
	83-WABZ	1.100	0.64	1.0	1.600	6,300	8	3,017	10,000
	83-WBAY	1.320	0.44	0.5	0.420	1,600	5	2,900	5,000
	83-WBBY	1.320	0.44	1.0	0.830	3,200	10	5,800	10,000
	83-WCAW	1.950	0.78	0.5	0.200	790	8	6,021	5,000
	83-WCBW	1.950	0.78	1.0	0.400	1,500	15	12,042	10,000
	83-WDAU	2.550	0.70	0.5	0.110	420	10	10,857	5,000
	83-WDBU	2.550	0.70	1.0	0.220	840	20	21,715	10,000
	83-WEAW	3.500	0.78	0.5	0.060	210	15	21,944	5,000
	83-WEBW	3.500	0.78	1.0	0.110	430	30	43,888	10,000
	83-WFAW	4.380	0.78	0.5	0.040	130	18	35,015	5,000
	83-WFBW	4.380	0.78	1.0	0.070	270	35	70,030	10,000
	83-WHAR	4.41	1.03	0.5	0.040	130	19	34,490	5,000
	83-WHBR	4.41	1.03	1.0	0.070	270	35	68,980	10,000
	83-WHAT	4.41	1.34	0.5	0.040	140	20	33,100	5,000
	83-WHBT	4.41	1.34	1.0	0.080	280	40	66,210	10,000
	83-WIAT	5.00	1.34	0.5	0.030	100	20	43,730	5,000
	83-WIBT	5.00	1.34	1.0	0.060	210	40	87,470	10,000
	83-WIAQ	5.00	1.50	0.5	0.030	110	20	42,880	5,000
	83-WIBQ	5.00	1.50	1.0	0.060	220	45	85,760	10,000
	83-WGAV	5.30	1.40	0.5	0.030	90	25	53,165	5,000
	83-WGBV	5.30	1.40	1.0	0.050	190	50	106,331	10,000
	83-WJAR	5.94	1.03	0.5	0.020	70	25	64,500	5,000
	83-WJBR	5.94	1.03	1.0	0.040	140	50	129,010	10,000
	83-WJAT	5.94	1.34	0.5	0.020	70	25	63,120	5,000
	83-WJBT	5.94	1.34	1.0	0.040	150	50	126,240	10,000
	83-WKAR	5.98	1.03	0.5	0.020	70	25	65,400	5,000
	83-WKBR	5.98	1.03	1.0	0.040	140	50	130,810	10,000

ORGANIC Material Code – 84	Part Number	Diameter	I.D.	Length*	Low	High	Power	Energy	Voltage
	<i>ORGANIC</i>	<i>Inches</i>	<i>Inches</i>	<i>Inches</i>	<i>Ohms</i>	<i>Ohms</i>	<i>Watts</i>	<i>joules</i>	<i>Maximum</i>
	84-WAAZ	1.190	0.689	0.5	0.140	18.9Meg	5	35	4,000
	84-WABZ	1.190	0.689	1.0	0.280	37.8Meg	10	70	8,000
	84-WBAY	1.420	0.470	0.5	0.080	9.90Meg	5	67	4,000
	84-WBBY	1.420	0.470	1.0	0.150	19.8Meg	10	134	8,000
	84-WCAW	2.100	0.840	0.5	0.040	4.80Meg	8	134	4,000
	84-WCBW	2.100	0.840	1.0	0.070	9.60Meg	15	269	8,000
	84-WDAU	2.740	0.750	0.5	0.020	2.50Meg	10	261	4,000
	84-WDBU	2.740	0.750	1.0	0.040	5.10Meg	20	522	8,000
	84-WEAW	3.750	0.845	0.5	0.010	1.30Meg	15	498	4,000
	84-WEBW	3.750	0.845	1.0	0.020	2.60Meg	30	996	8,000
	84-WFAW	4.620	0.845	0.5	0.007	800,000	20	771	4,000
	84-WFBW	4.620	0.845	1.0	0.013	1.70Meg	40	1,543	8,000
	84-WIAT	5.350	1.450	0.5	0.005	600,000	20	1,050	4,000
	84-WIBT	5.350	1.450	1.0	0.010	1.30Meg	45	2,050	8,000
	84-WGAV	5.650	1.500	0.5	0.005	600,000	22	1,086	4,000
	84-WGBV	5.650	1.500	1.0	0.009	1.20Meg	48	2,172	8,000

ALUMINA Material Code – 85	Part Number	Diameter	I.D.	Length*	Low	High	Power	Energy	Voltage
	<i>ALUMINA</i>	<i>Inches</i>	<i>Inches</i>	<i>Inches</i>	<i>Ohms</i>	<i>Ohms</i>	<i>Watts</i>	<i>joules</i>	<i>Maximum</i>
	85-WCAW	2.00	0.80	0.5	0.190	750	8	6,021	5,000
	85-WCBW	2.00	0.80	1.0	0.380	1,500	15	12,042	10,000
	85-WDAU	2.65	0.75	0.5	0.100	390	10	10,857	5,000
	85-WDBU	2.65	0.75	1.0	0.200	780	20	21,715	10,000
	85-WEAW	3.60	0.80	0.5	0.060	200	15	21,944	5,000
	85-WEBW	3.60	0.80	1.0	0.110	410	30	43,888	10,000
	85-WECW	3.60	0.80	1.5	0.160	620	45	65,800	15,000
	85-WFAW	4.45	0.80	0.5	0.040	130	18	35,015	5,000
	85-WFBW	4.45	0.80	1.0	0.070	260	35	70,030	10,000
	85-WFCW	4.45	0.80	1.5	0.100	390	55	105,000	15,000
	85-WHAR	4.50	1.08	0.5	0.040	130	19	34,490	5,000
	85-WHBR	4.50	1.08	1.0	0.070	260	35	68,980	10,000
	85-WHCR	4.50	1.08	1.5	0.110	400	55	103,400	15,000
	85-WHAT	4.50	1.40	0.5	0.040	130	19	33,100	5,000
	85-WHBT	4.50	1.40	1.0	0.070	270	35	66,210	10,000
	85-WHCT	4.50	1.40	1.5	0.110	410	55	100,500	15,000
	85-WIAT	5.15	1.40	0.5	0.030	100	20	43,730	5,000
	85-WIBT	5.15	1.40	1.0	0.060	200	40	87,470	10,000
	85-WIAQ	5.15	1.55	0.5	0.030	100	20	42,880	5,000
	85-WIBQ	5.15	1.55	1.0	0.060	210	40	85,760	10,000
	85-WJAR	6.10	1.06	0.5	0.020	70	25	64,500	5,000
	85-WJBR	6.10	1.06	1.0	0.040	140	50	129,010	10,000
	85-WJAT	6.10	1.40	0.5	0.020	70	25	63,120	5,000
	85-WJBT	6.10	1.40	1.0	0.040	140	50	126,240	10,000
	85-WKAR	6.15	1.08	0.5	0.020	60	25	65,400	5,000
	85-WKBR	6.15	1.08	1.0	0.040	130	50	130,810	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:

- 3.60" x 0.80" x 0.50" Ceramic Alumina Resistor Washer at 100 ohms +/- 10%
- 4.38" x 0.78" x 1.00" Ceramic Zirconia Resistor Washer at 2.5 ohms +/- 20%

85-DEA-101K

83-WFBW-2R5L

