

Standard models of Black Gate capacitors(DC)



Made of quality materials through the use of sophisticated automated equipment. In this case, no magnetic material is used. Low E.S.R. compared with conventional electrolytic capacitors. Excellent even at low temperatures. Suitable for all kinds of electronic equipment. Can improve the S/N ratio of the equipment and lower distortion. Capacity tolerance: +/ - 20%.

RATED VOLTAGE(V)	NOMINAL CAPACITANCE(μF)	DIMENSIONS D×L(mm)
16WV	10μF	5×11
	22μF	6.3×11
	33μF	6.3×11
	47μF	8×11
	100μF	10×12.5
	220μF	10×20
	330μF	12.5×20
	470μF	12.5×25
	1000μF	16×25
	2200μF	16×31.5
25WV	1000μF	16×36
	4700μF	40×40
35WV	10μF	8×11
	33μF	10×16
	47μF	10×16
	100μF	12.5×20
	220μF	16×25
	330μF	16×31.5
	470μF	16×36.5
	1000μF	22×42
	4700μF	40×50
	47μF	8×11
50WV	10μF	10×12.5
	22μF	10×20
	47μF	12.5×25
	100μF	16×25
	220μF	18×35.5
	470μF	22×42
100WV	4.7μF	8×11
	10μF	10×12.5
	22μF	10×20
	47μF	12.5×25
	100μF	16×25
	220μF	18×35.5
160WV	* H 33μF	12.5×20
	* 100μF	16×36
	* ● 470μF	30×45
250WV	* 3.3μF	10×15
	* 10μF	12×25

* For Hi-Fi TV set
▲ Lug terminal type
● PCB terminal type

For AC power use Black Gate AC



Designed for use in a loud speaker networks. A breakthrough in this class of products providing a solution to problems of inadequate power and information in the mid-to-low-frequency band with loud speakers. Capacity tolerance: +/ - 10%.

RATED VOLTAGE(V)	NOMINAL CAPACITANCE(μF)	DIMENSIONS D×L(mm)
50WV	0.1μF	16×32
	10μF	16×36
	15μF	18×36
	22μF	22×41
	47μF	25×51

* Computer application grade super low E.S.R.
▲ Lug terminal type
■ High power type with screw leads
● PCB terminal type

Computer Grade Black Gate V (DC)



The E.S.R. Characteristic is so superior that its value shows 1/8 to 1/10 lower than ordinary capacitors. Suitable for low-noise equipment, switching supply, video equipment and OA equipment.

RATED VOLTAGE(V)	NOMINAL CAPACITANCE(μF)	DIMENSIONS D×L(mm)
16WV	330μF	12.5×20

* For SR ▲ Lug terminal type ● PCB terminal type

Very Low-noise Type for Coupling Black Gate C (DC)



Designed for coupling between circuits with a direct-current potential difference. Features better leakage and distortion characteristics than tantalum capacitors. Lead lines fixed with resin for resistance against shock noise. Capable of transmitting signals at a high level of performance in a small electronic device. Suitable for use in high-gain pre/main-amplifiers, small audio systems, and video systems.

RATED VOLTAGE(V)	NOMINAL CAPACITANCE(μF)	DIMENSIONS D×L(mm)
50WV	1μF 2.2μF 4.7μF 10μF 47μF	5×12.5 5×12.5 6.3×12.5 8×13 10×21.5

High-performance K Series (DC)



Successfully eliminated ion distortion and also nonlinear distortion which is inevitable with conventional polarized electrolyte capacitors because of the non-reversibility of the electrodes. Keeps the total amount of distortion down to 15(dB or less). Comparable with high-performance film capacitors. Suitable for all types of electronic equipment including audio systems, video equipment, OA equipment, communication equipment and military devices.

RATED VOLTAGE(V)	NOMINAL CAPACITANCE(μF)	DIMENSIONS D×L(mm)
16WV	FK 47μF	10×12.5
	FK 100μF	10×16
	FK 220μF	12.5×20
	FK 470μF	16×25
	FK 1000μF	16×31.5
25WV	FK 100μF	10×20
	FK 220μF	12.5×25
35WV	FK 2200μF	18×36
50WV	K 100μF FK 1000μF	12.5×20 22×40
63WV	▲ FK 2200μF ▲ FK 10000μF	30×50 40×100
80WV	■ FK 10000μF	50×75
100WV	FK 100μF ■ K 10000μF	18×35 50×80
160WV	VK 47μF	12.5×25
350WV	* ● VK 22μF * ● VK 150μF	22×25 30×25

Compatible with both AC and DC Black Gate N and NX



Developed based on the concept of the K Series. A family of completely symmetric electrolytic capacitors. Functions in the same manner as film capacitors within the withstand voltage. A compact, large-capacity package which film capacitors are not capable of. Can realize new types of high-performance equipment requiring NF circuits, coupling circuits and bias circuits, etc. The NX Series further improved performance of the N Series.

RATED VOLTAGE(V)	NOMINAL CAPACITANCE(μF)	DIMENSIONS D×L(mm)
6.3WV	□ NX 22μF □ NX 47μF ★ NX 100μF ★ NX 220μF N 470μF NX 470μF NX 2200μF	5×7 6.3×7 6.3×11 8×11 12.5×24 12.5×24 18×35
	10WV	16×24
	16WV	6.3×11 12.5×20 16×24
	25WV	16×24
	35WV	16×24
50WV	□ NX 0.1μF □ NX 0.47μF N 1μF N 4.7μF N 10μF N 47μF N 100μF ● N 1000μF	4×7 4×7 5×11 5×11 8×11 12.5×24 15×31 22×35
100WV	N 330μF △ N 2200μF	18×36 30×100

Black Gate-WK POWER TANK



In addition to all of the tremendous performance of non-polarized capacitors, the WK series offers high voltage operation. The POWER TANK is an innovative capacitor capable of handling high voltages and currents. It has a long life, an asymmetrical, non-polarized construction and a compact body.

RATED VOLTAGE(V)	NOMINAL CAPACITANCE(μF)	DIMENSIONS D×L(mm)
200WV	● 220μF	30×25

Very-small High-performance Black Gate PK Series(DC)



A family of very compact capacitors capable of delivering the high performance of large models. Suitable for use in all types of electronic equipment including OA equipment, communications equipment, illumination equipment, etc.

RATED VOLTAGE(V)	NOMINAL CAPACITANCE(μF)	DIMENSIONS D×L(mm)	
4WV	● 220μF	6.3×7	
	6.3WV	22μF 33μF 47μF 100μF	
	10WV	22μF 33μF 47μF 100μF	
	16WV	10μF 22μF 33μF 47μF	
	25WV	4.7μF 10μF 22μF 33μF 47μF	
35WV	3.3μF 4.7μF 10μF 22μF 33μF	4×7 4×7 5×7 6.3×7	
	50WV	0.1μF 0.22μF 0.33μF 0.47μF 1μF 2.2μF 3.3μF 4.7μF 10μF 22μF	4×7 4×7 4×7 4×7 4×7 4×7 4×7 4×7 5×7 6.3×7
	63WV	0.47μF 1μF 2.2μF 3.3μF 4.7μF 10μF	4×7 4×7 4×7 4×7 4×7 6.3×7
	100WV	0.47μF 1μF 2.2μF 3.3μF	4×7 4×7 5×7 6.3×7
	160WV	0.47μF 1μF 2.2μF 3.3μF	4×7 4×7 5×7 6.3×7

Bold-faced models are standard stock items.

Lug terminal type for high-voltage power supply smoothing Black Gate WKZ(DC)



Developed for use in Hi-Fi vacuum tube amplifiers. Unrivaled as regards the transparency of high-frequency band and the resolution and presence of mid-to-low frequency band. With a diameter of 35 mm, this series is compatible with conventional products.

RATED VOLTAGE(V)	NOMINAL CAPACITANCE(μF)	DIMENSIONS D×L(mm)

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