BW High Temperature Range, For +135℃ Use Series

· Highly dependable reliability withstanding load life of 1000 to 3000 hours at 135℃
· Suited for automobile electronics where heavy duty services are indispensable
· Complied to the RoHS directive

Items	Performance characteristics
Operating temperature range	-55 ~ +135℃
Leakage current max.	I = 0.03CV or 4μA whichever is greater (after 1 minute)
Capacitance tolerance	±20% at 120Hz, 20℃
Dissipation factor max. (at 120Hz,20℃)	Capacitance > 1000μF: tanδ increases by 0.02 for each 1000μF from below value.

WV	10	16	25	35	50	63	80	100
Tanδ	0.20	0.16	0.14	0.12	0.10	0.10	0.08	0.08

Low temperature characteristics (Impedance ratio at 120Hz)

WV	10	16	25	35	50	63	80	100
Z-25℃ /Z+20℃	3	2	2	2	2	2	2	2
Z-40℃ /Z+20℃	4	4	4	4	4	4	4	4

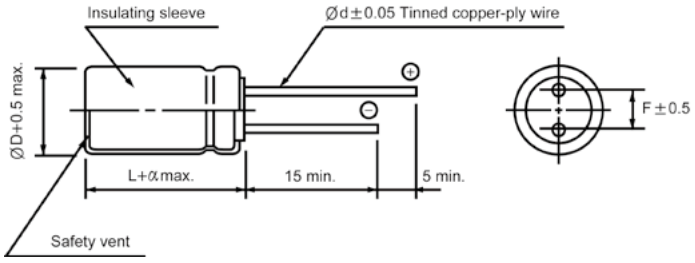
Load life (after application of the rated voltage for 3000 hours at 135℃)

Leakage current	Less than specified value
Capacitance change	Within ±30% of initial value
Tanδ	Less than 300% of specified value
Φ8:1000 hours; Φ10:2000 hours; ≥Φ12.5:3000 hours.	

Shelf life (at 135℃)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value.

● DRAWING

Unit : mm



ΦD	8	10	12.5	16
F	3.5	5.0	5.0	7.5
Φd	0.5	0.6		0.8
α	1.5	2.0		

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

V	Frequency / CV	120Hz	300Hz	1kHz	10kHz≤
10 ~ 100	1000>CV	0.50	0.64	0.83	1.00
	1000≤CV	0.67	0.79	0.91	1.00

BW Series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV / μF	10			16			25			35		
100				8×11.5	0.32	340	8×11.5	0.13	500	10×12.5	0.150	620
220	8×11.5	0.26	340	10×12.5	0.15	620	10×12.5	0.10	680	10×16	0.094	790
330	10×12.5	0.15	620	10×12.5	0.10	680	10×16	0.075	945	10×20	0.075	950
470	10×12.5	0.10	680	10×16	0.075	945	10×20	0.057	1100	12.5×20	0.058	1330
1000	10×20	0.057	1100	12.5×20	0.042	1490	12.5×25	0.033	1750	16×25	0.031	2010
2200	12.5×25	0.033	1750	16×25	0.024	2300	16×31.5	0.020	2710			
3300	16×25	0.024	2300	16×31.5	0.020	2710						
4700	16×31.5	0.020	2710									

WV / μF	50			63			80			100		
4.7	8×11.5	1.15	85									
10	8×11.5	0.75	180							8×11.5	1.50	150
22	8×11.5	0.50	250	8×11.5	2.00	130	8×11.5	1.50	150	10×12.5	0.80	480
33	8×11.5	0.45	300	8×11.5	1.50	150	10×12.5	0.80	480	10×12.5	0.80	480
47	8×11.5	0.35	440	10×12.5	0.59	530	10×12.5	0.80	480	10×16	0.55	630
100	10×12.5	0.18	555	10×16	0.41	690	10×20	0.39	790	12.5×20	0.25	990
220	10×20	0.098	930	12.5×20	0.16	1050	12.5×25	0.18	1240	16×25	0.11	1500
330	12.5×20	0.070	1330	12.5×25	0.12	1290	12.5×31.5	0.16	1390	16×31.5	0.079	1790
470	12.5×25	0.055	1650	12.5×31.5	0.097	1460	16×25	0.11	1500			
1000	16×31.5	0.031	2430	16×31.5	0.055	1900						

Ripple current (mA rms) at 135℃ , 100kHz
Impedance (Ω) max. at 20℃ , 100kHz
Case size ΦD×L(mm)