

WJ

Screw Terminal Type, Long Life Series

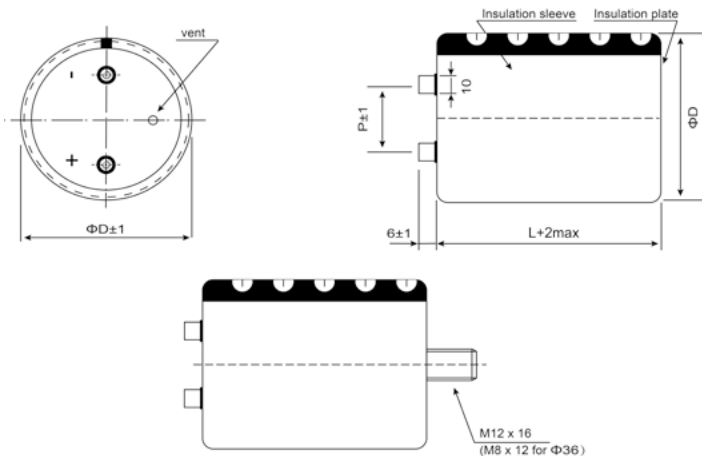
- Long Life
- High Reliability
- High Currents for High Professional
- Power Application and Inverters
- Complied to the RoHS directive

Items	Performance characteristics			
Operating temperature range	-40 ~ +85°C			
Leakage current max.	I=0.01CV or 5mA whichever is smaller (after 5 minutes)			
Capacitance tolerance	±20% at 120Hz, 20°C			
Dissipation factor max. (at 120Hz, 20°C)	WV	350	400	450
	Tanδ	0.15	0.15	0.15
Low temperature characteristics (capacitance ratio at 120Hz)	WV	350	400	450
	C-25°C /C+20°C	≥0.7	≥0.7	≥0.7

	Useful Life		Load Life	Endurance Test	Shelf Life
Life Time	>10000h	>100000h	5000h	5000h	1000h
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value
Capacitance Change	Within ±30% of initial value		Within ±20% of initial value	Within ±10% of initial value	Within ±20% of initial value
Dissipation Factor	Not more than 300% of specified value		Not more than 200% of specified value	Not more than 130% of specified value	Not more than 200% of specified value
Condition:					
Applied Voltage	U _R	U _R	U _R	U _R	U _R =0
Applied Current	I _R	1.2×I _R	I _R	I _R =0	I _R =0
Applied Temperature	85°C	40°C	85°C	85°C	85°C
					After test U _R to be applied for 60min>24h before measurement

DRAWING

Unit: mm



ΦD/mm	51	64	77	90	101
P/mm	22.0	28.2	31.4	31.4	41.5

Ripple Current Coefficient

Frequency(Hz)	50/60	120	300	1k	>10k
Coefficient	0.80	1.00	1.10	1.30	1.40

Ambient Temp(°C)	40	60	85
Coefficient	1.89	1.67	1.00

The useful life can be prolonged by operating capacitor at loads below the rated values (e.g.lower operating voltage, Rms ripple current or ambient temperature) and by appropriate cooling measures.

It is advisable not to apply a ripple current exceeding the rated ripple current without any cooling measures as this will shorten capacitor's life.

*Hex head screw M5×10 and M6×12 are standard screws.

Longer screws are available on request.

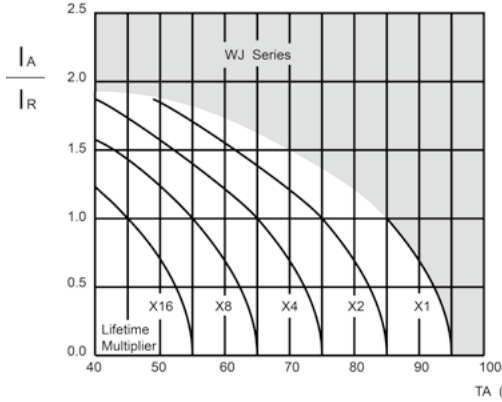
*Max tightening torque for screw terminal M5:3Nm,M6:4Nm.

Max torque for bolt mounting M12:12.5Nm.

*Screws, Bracket and cap nut will be delivered separately if necessary.

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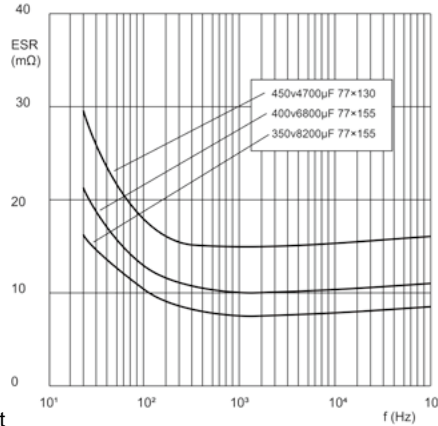
Lifetime Diagram



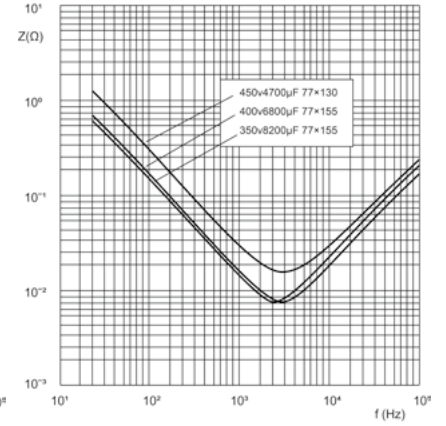
I_A =actual ripple current at 120Hz, I_R =rated ripple current at 120Hz, 85°C
Multiplier of Useful Life as a function of ambient temperature and ripple current load.

Typical Curves

ESR ~ Frequency at 20°C



Impedance Z ~ Frequency at 20°C



● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV(SV) μF	350 (400)				400 (450)				450 (500)			
	1000					51×83	215	82	5.0	51×83	215	93
1200	51×83	215	67	5.5	51×83	179	70	5.5	51×96	179	69	6.0
1500	51×83	172	55	6.1	51×96	143	50	6.7	51×115	143	56	7.2
1800	51×96	143	43	7.4	51×96	119	40	7.4	51×130	119	45	8.3
2200	51×96	117	30	8.2	51×130	98	28	9.2	64×96	98	35	9.0
2700	51×130	96	27	10.2	64×96	80	23	9.9	64×115	80	30	10.7
3300	51×130	78	23	11.3	64×115	65	21	11.8	64×130	65	24	12.4
3900	64×115	66	19	12.8	64×130	55	19	13.5	77×115	55	20	13.6
4700	64×130	55	16	14.8	77×115	46	15	14.9	77×130	46	16	15.6
5600	77×115	46	14	16.3	77×130	39	14	17.0	77×155	38	13	18.3
6800	77×130	38	13	18.8	77×155	32	13	20.2	90×157	32	11	21.4
8200	77×155	31	11	22.1	90×157	26	12	23.5	90×157	26	10	23.5
10000	90×157	26	10	25.9	90×157	22	10	25.9	90×196	22	9	28.3
12000	90×157	22	8	28.4	90×196	18	8	31.0	90×236	18	8	33.6
15000	90×196	17	6	34.6	90×236	14	6	37.5				
18000	90×236	14	4	41.4								

↑ Ripple current (A rms) at 85°C, 120Hz
 ↑ Typ ESR (mΩ) at 20°C, 120Hz
 ↑ Max.ESR (mΩ) at 20°C, 120Hz
 ↑ Case size Φ D×L (mm)