

WR Series

Features

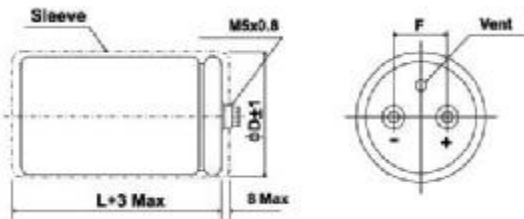
- ◆ High ripple current, Large capacity , 2000 hours at 85°C .
- ◆ Screw Type, Standard.
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics	
Temperature Range	-40~+85°C	-25~+85°C
Rated Voltage Range	10~100Vdc	160~450Vdc
Capacitance Range	330~1500000μF	
Capacitance Tolerance	±20% (120Hz, +20°C)	
Leakage Current (+20°C,max.)	$I \leq 3\sqrt{CV}$ (μA) (After 5 minute application of rated voltage at +20°C)	
Dissipation Factor(tgδ) 120Hz, +20°C	Less than the value specified in the standard products table	
Endurance	After applying rated voltage with rated ripple current for 2000 hours at 85°C,the capacitors shall meet the following requirements.	
	Capacitance Change	Within ±20% of the initial value
	Dissipation Factor	No more than 200% of the specification value
	Leakage Current	No more than the specification value
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours, the characters shall meet the following requirements.	
	Capacitance Change	Within ±20% of the initial value
	Dissipation Factor	No more than 200% of the specification value
	Leakage Current	No more than 200% of the specification value
Others	JISC-5101(IEC 60384)	

Dimensions



ΦD	35	50.8	63.5	76	89
F	13	22	28	32	32

Frequency coefficient

WV(V) \ Freq(Hz)	50	120	1K	10K
10~50	0.90	1.00	1.10	1.15
63~100	0.90	1.00	1.15	1.30
160~250	0.80	1.00	1.20	1.40
315~450	0.80	1.00	1.20	1.40

WR Series**Case size & Maximum permissible ripple current**

Cap	WV ΦD	10			16		
		Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)	Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)
33000					35×50	5.47	0.60
47000		35×50	5.60	0.80	35×60	6.40	0.60
68000		35×70	7.50	0.80	35×70	7.90	0.60
100000		35×80	9.25	0.80	50.8×70	10.60	0.80
150000		50.8×70	10.20	1.00	50.8×80	11.50	1.00
220000		50.8×90	13.90	1.50	50.8×100	15.60	1.00
330000		63.5×90	15.90	1.50	63.5×100	25.10	1.50
470000		63.5×115	19.00	2.00	76×110	30.50	1.50
680000		76×130	22.80	2.00	89×120	33.00	1.50
1000000		89×130	27.70	2.50	89×160	36.00	2.00
1500000		89×160	33.90	2.50			

Cap	WV ΦD	25			35		
		Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)	Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)
10000					35×50	3.55	0.40
15000					35×60	3.74	0.40
22000		35×60	4.47	0.50	35×70	4.95	0.40
33000		35×80	6.20	0.50	35×80	6.20	0.40
47000		35×100	8.20	0.50	50.8×70	8.20	0.50
68000		50.8×70	9.40	0.60	50.8×80	9.30	0.60
100000		50.8×80	12.00	0.80	50.8×120	13.6	0.60
150000		63.5×105	15.30	0.80	63.5×110	14.5	0.80
220000		63.5×120	18.90	1.00	76×115	16.8	0.80
330000		76×120	24.80	1.00	76×160	24.8	1.00
470000		89×120	30.80	1.20	89×170	32.6	1.00
680000		89×160	33.30	1.20	89×220	35.2	1.00

Cap	WV ΦD	50			63		
		Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)	Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)
6800		35×50	3.25	0.30	35×50	2.50	0.25
10000		35×60	4.29	0.30	35×70	4.10	0.25
15000		35×80	4.69	0.30	35×100	5.50	0.30
22000		35×100	6.10	0.40	50.8×70	7.10	0.30
33000		50.8×70	7.00	0.40	50.8×90	8.80	0.40
47000		50.8×100	8.60	0.50	50.8×120	11.70	0.40
68000		50.8×120	11.00	0.50	63.5×105	15.00	0.50
100000		63.5×115	14.20	0.60	76×110	20.80	0.50
150000		76×120	18.60	0.60	76×150	26.00	0.50
220000		89×130	20.30	0.60	89×150	28.30	0.60
330000		89×170	25.30	0.80	89×220	31.20	0.60
470000		89×230	33.20	0.80			

WR Series**Case size & Maximum permissible ripple current**

Cap	WV ΦD	80			100		
		Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)	Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)
3300					35×50	3.20	0.25
4700		35×50	2.60	0.25	35×70	3.80	0.25
6800		35×60	3.90	0.25	35×90	4.50	0.25
10000		50.8×60	4.20	0.25	50.8×70	5.30	0.25
15000		50.8×70	6.00	0.25	50.8×90	6.00	0.25
22000		50.8×90	6.50	0.30	50.8×120	6.80	0.25
33000		50.8×105	9.20	0.30	63.5×120	10.00	0.25
47000		63.5×115	12.70	0.30	76×115	14.40	0.35
68000		76×115	15.50	0.40	76×160	18.20	0.35
100000		76×160	21.30	0.40	89×170	22.10	0.35
150000		89×155	26.50	0.40	89×220	27.00	0.35
220000		89×220	28.90	0.50			

Cap	WV ΦD	160			200		
		Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)	Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)
1000					35×50	1.90	0.25
1500		35×50	2.40	0.25	35×70	2.60	0.25
2200		35×70	3.10	0.25	35×90	3.40	0.25
3300		35×90	4.20	0.25	50.8×70	4.50	0.25
4700		50.8×80	5.00	0.25	50.8×90	5.70	0.25
6800		50.8×100	6.40	0.25	50.8×115	7.40	0.25
10000		63.5×90	9.10	0.25	63.5×105	9.80	0.25
15000		63.5×130	12.00	0.25	76×115	12.30	0.25
22000		76×130	13.80	0.25	76×165	15.30	0.25
33000		89×130	18.20	0.25	89×145	21.80	0.25
47000		89×170	20.60	0.25	89×210	28.20	0.25
68000		89×240	22.30	0.25			

Cap	WV ΦD	250			350		
		Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)	Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)
470					35×60	1.90	0.20
680		35×50	2.00	0.25	35×70	2.40	0.20
820		35×60	2.40	0.25	35×80	2.70	0.20
1000		35×70	2.70	0.25	50.8×60	3.00	0.20
1500		35×90	3.60	0.25	50.8×70	4.30	0.20
2200		50.8×70	4.80	0.25	50.8×90	5.70	0.20
3300		50.8×90	6.10	0.25	63.5×90	8.10	0.20
4700		50.8×115	7.90	0.25	63.5×115	10.40	0.20
6800		63.5×115	10.50	0.25	63.5×140	13.90	0.20
10000		63.5×140	13.50	0.25	76×160	18.50	0.20
15000		89×130	16.60	0.25	89×160	25.20	0.20
22000		89×170	21.70	0.25			
33000		89×210	25.70	0.25			

WR Series**Case size & Maximum permissible ripple current**

Cap	WV ΦD	400			450		
		Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)	Case Size D×L (mm)	Ripple Current (A)	tanδ (MAX)
330					35×60		0.20
390		35×50	2.00	0.25	35×70	2.40	0.20
470		35×60	2.40	0.25	35×80	2.70	0.20
680		35×70	2.70	0.25	50.8×60	3.00	0.20
820		35×90	3.60	0.25	50.8×70	4.30	0.20
1000		50.8×70	4.80	0.25	50.8×90	5.70	0.20
1500		50.8×90	6.10	0.25	63.5×90	8.10	0.20
2200		50.8×115	7.90	0.25	63.5×115	10.40	0.20
3300		63.5×115	10.50	0.25	63.5×140	13.90	0.20
4700		63.5×140	13.50	0.25	76×160	18.50	0.20
6800		89×130	16.60	0.25	89×160	25.20	0.20
10000		89×170	21.70	0.25			
15000		89×210	25.70	0.25			

Size ΦD×L (mm), Ripple Current (A r.m.s. /85°C 120Hz).

Above size is the standard size for our product. If you need special size please contact our sales offices .