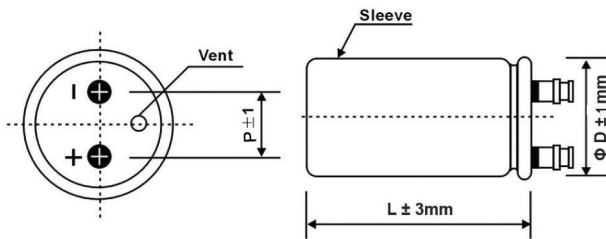


FEATURES

- High ripple current, Size may be selected
- Load life of 2000 hours at 85°C
- Used for computers, communication Powers and inverters



DIMENSIONS (mm)



MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Voltage(V) Hz	50	120	300	1,000	3,000	5,000	10,000	20,000
10~50	0.95	1.00	1.04	1.10	1.12	1.13	1.15	1.15
63~100	0.95	1.00	1.06	1.16	1.20	1.25	1.30	1.36
160~200	0.90	1.00	1.10	1.20	1.35	1.40	1.50	1.55
250~500	0.80	1.00	1.10	1.20	1.35	1.40	1.50	1.60

Multiplier for Ripple Current vs. Temperature

Temperature	45	60	70	85
Factor	2.70	2.19	1.68	1.00

ΦD	35	51	63	78	90
P	13	22	28	32	32

Item	Characteristics	
Operating Temperature Range(°C)	-40~+85(315WV,-25~+85)	
Capacitance Tolerance(20°C,120Hz)	±20%	
Leakage current(u A)	0.02CV or 5mA whichever is smaller(at 20°C,after 5 minutes) C:Nominal Capacitance(u F),V:Rated Voltage(V)	
Dissipation Factor(20°C,120Hz)	Less than the value specified in the standard products tables	
Load life(+85°C)	Life Time	2000hours
	Leakage Current	Not more than the specified value
	Capacitance change	Within±20% of the initial value
	Dissipation Factor	Not more than 200% of the specified value
Shelf Life(+85°C)	Life Time	1000hours
	Leakage Current	Not more than the specified value
	Capacitance change	Within±20% of the initial value
	Dissipation Factor	Not more than 200% of the specified value
After test: UR To be applied for 30 minutes,12 to 24 hours before measurement		



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STANDARD RATINGS

WV(v)	Surge	cap	Case size		tanδ	ESR 20°C	Ripple
(V.DC)	(V.DC)	(μF)	code	ΦD*L(mm)		120Hz(mΩ)	Arms
16	20	22000	A5	36*53	0.60	36	4.1
		27000	A5	36*53	0.60	29	4.5
		33000	A5	36*53	0.60	24	5.0
		39000	A6	36*65	0.60	20	5.9
		47000	A8	36*83	0.60	17	6.4
		56000	A8	36*83	0.60	14	7.3
		68000	A10	36*100	0.60	12	8.4
		82000	A10	36*100	0.80	13	8.3
		100000	A12	36*121	0.80	11	9.5
		120000	A12	36*121	0.80	9	10.9
		150000	C10R	51*96	1.00	9	11.3
		180000	C12R	51*115	1.00	7	12.8
		220000	C13R	51*130	1.00	6	15.3
		270000	D10R	64*96	1.00	5	17.6
		330000	D12R	64*115	1.50	6	16.8
		390000	D13R	64*130	1.50	5	18.3
		470000	E12R	77*121	1.50	4	21.3
		560000	E13R	77*130	1.50	4	23.6
680000	E16R	77*155	1.50	3	27.6		
820000	F16R	90*157	2.00	3	27.1		

WV(v)	Surge	cap	Case size		tanδ	ESR 20°C	Ripple
(V.DC)	(V.DC)	(μF)	code	ΦD*L(mm)		120Hz(mΩ)	Arms
25	32	15000	A5	36*53	0.50	44	3.7
		18000	A5	36*53	0.50	37	4.1
		22000	A5	36*53	0.50	30	4.5
		27000	A6	36*65	0.50	25	5.0
		33000	A8	36*83	0.50	20	5.9
		39000	A8	36*83	0.50	17	6.7
		47000	A10	36*100	0.50	14	7.7
		56000	A10	36*100	0.60	14	7.9
		68000	A12	36*121	0.60	12	9.1
		82000	A12	36*121	0.60	10	10.4
		100000	C10R	51*96	0.80	11	10.3
		120000	C12R	51*115	0.80	9	11.7
		150000	C13R	51*130	0.80	7	14.1
		180000	D10R	64*96	0.80	6	15.7
		220000	D12R	64*115	1.00	6	16.1
		270000	D13R	64*130	1.00	5	18.6
		330000	D16R	64*155	1.00	4	21.9
		390000	E12R	77*121	1.20	4	22.0
470000	E16R	77*155	1.20	3	25.6		
560000	F13R	90*131	1.20	3	27.9		



WV(v) (V.DC)	Surge (V.DC)	cap (μF)	Case size		tanδ	ESR 20°C		Ripple Arms
			code	ΦD*L(mm)		120Hz(mΩ)	Arms	
35	44	10000	A5	36*53	0.40	53	3.4	
		12000	A5	36*53	0.40	44	3.7	
		15000	A6	36*65	0.40	35	4.2	
		18000	A8	36*83	0.40	29	4.9	
		22000	A8	36*83	0.40	24	5.7	
		27000	A10	36*100	0.40	20	6.3	
		33000	A10	36*100	0.40	16	7.2	
		39000	A12	36*121	0.50	17	7.3	
		47000	C10R	51*96	0.50	14	8.7	
		56000	C10R	51*96	0.60	14	8.6	
		68000	C12R	51*115	0.60	12	9.8	
		82000	D10R	64*96	0.60	10	11.6	
		100000	D12R	64*115	0.60	8	13.3	
		120000	D12	64*121	0.60	7	14.8	
		150000	D13R	64*130	0.80	7	14.9	
		180000	E12R	77*115	0.80	6	17.0	
		220000	E13R	77*130	0.80	5	20.0	
		270000	E16R	77*155	1.00	5	20.3	
		330000	F13R	90*131	1.00	4	23.5	
		390000	F16R	90*157	1.00	3	26.4	
470000	F16R	90*157	1.00	3	29.6			

WV(v) (V.DC)	Surge (V.DC)	cap (μF)	Case size		tanδ	ESR 20°C		Ripple Arms
			code	ΦD*L(mm)		120Hz(mΩ)	Arms	
50	63	5600	A5	36*53	0.30	71	3.0	
		6800	A5	36*53	0.30	59	3.3	
		8200	A5	36*53	0.30	49	3.6	
		10000	A6	36*65	0.30	40	4.0	
		12000	A8	36*83	0.30	33	4.7	
		15000	A8	36*83	0.30	27	5.5	
		18000	A10	36*100	0.30	22	6.2	
		22000	A12	36*121	0.40	24	6.3	
		27000	A12	36*121	0.40	20	7.1	
		33000	C10R	51*96	0.40	16	8.2	
		39000	C10R	51*96	0.50	17	8.1	
		47000	C12R	51*115	0.50	14	9.3	
		56000	D10R	64*96	0.50	12	10.5	
		68000	D10R	64*96	0.50	10	12.0	
		82000	D12R	64*115	0.50	8	13.7	
		100000	E12R	77*115	0.60	8	14.7	
		120000	E12R	77*121	0.60	7	16.7	
		150000	E13R	77*130	0.60	5	19.3	
		180000	E16R	77*155	0.60	4	21.9	
		220000	F13R	90*131	0.60	4	21.4	
270000	F16R	90*157	0.60	3	24.6			



WV(v) (V.DC)	Surge (V.DC)	cap (μF)	Case size		tanδ	ESR 20°C		Ripple Arms
			code	ΦD*L(mm)		120Hz(mΩ)	Arms	
63	79	3900	A5	36*53	0.25	85	2.7	
		4700	A5	36*53	0.25	71	3	
		5600	A5	36*53	0.25	59	3.3	
		6800	A6	36*65	0.25	49	3.6	
		8200	A8	36*83	0.25	40	4.3	
		10000	A8	36*83	0.25	33	4.9	
		12000	A10	36*100	0.25	28	5.6	
		15000	A10	36*100	0.3	27	5.9	
		18000	A12	36*121	0.3	22	6.7	
		22000	A12	36*121	0.3	18	7.8	
		27000	C10R	51*96	0.4	20	7.4	
		33000	C10R	51*96	0.4	16	8.4	
		39000	C12R	51*115	0.4	14	9.5	
		47000	C13R	51*130	0.4	11	11.3	
		56000	D12R	64*115	0.4	9	12.8	
		68000	D12	64*121	0.5	10	12.7	
		82000	D13R	64*130	0.5	8	14.5	
		100000	E12R	77*115	0.5	7	16.7	
		120000	E13R	77*130	0.5	6	18.9	
		150000	E16R	77*155	0.5	4	22.4	
180000	F13R	90*131	0.6	4	22.4			
220000	F16R	90*157	0.6	4	26.2			

WV(v) (V.DC)	Surge (V.DC)	cap (μF)	Case size		tanδ	ESR 20°C		Ripple Arms
			code	ΦD*L(mm)		120Hz(mΩ)	Arms	
80	100	3300	A5	36*53	0.25	101	2.5	
		3900	A5	36*53	0.25	85	2.8	
		4700	A6	36*65	0.25	71	3	
		5600	A8	36*83	0.25	59	3.6	
		6800	A8	36*83	0.25	49	3.9	
		8200	A8	36*83	0.25	40	4.5	
		10000	A10	36*100	0.25	33	5.2	
		12000	A10	36*100	0.25	28	5.9	
		15000	A12	36*121	0.25	22	6.8	
		18000	A12	36*121	0.25	18	7.8	
		22000	C10R	51*96	0.3	18	8	
		27000	C10R	51*96	0.3	15	9.2	
		33000	C12R	51*115	0.3	12	10.5	
		39000	C13R	51*130	0.3	10	12	
		47000	D12R	64*115	0.3	8	13.6	
		56000	D13R	64*130	0.4	9	13.4	
		68000	E12R	77*115	0.4	8	15.4	
		82000	E13R	77*130	0.4	6	17.5	
		100000	E16R	77*155	0.4	5	20.5	
		120000	F13R	90*131	0.4	4	22.4	
150000	F16R	90*157	0.4	4	26.5			



WV(v)	Surge	cap	Case size		tanδ	ESR 20°C	Ripple
(V.DC)	(V.DC)	(μF)	code	ΦD*L(mm)		120Hz(mΩ)	Arms
100	125	1800	A5	36*53	0.25	184	1.9
		2200	A5	36*53	0.25	151	2.1
		2700	A5	36*53	0.25	123	2.3
		3300	A6	36*65	0.25	101	2.6
		3900	A8	36*83	0.25	85	3
		4700	A8	36*83	0.25	71	3.5
		5600	A10	36*100	0.25	59	3.9
		6800	A10	36*100	0.25	49	4.5
		8200	A12	36*121	0.25	40	5.1
		10000	A12	36*121	0.25	33	5.9
		12000	C8R	51*75	0.25	28	6.4
		15000	C10R	51*96	0.25	22	7
		18000	C12R	51*115	0.25	18	8.3
		22000	C13R	51*130	0.25	15	10
		27000	D13R	64*118	0.25	12	11.5
		33000	D13R	64*130	0.25	10	11.9
		39000	E12R	77*115	0.25	9	13.4
		47000	E13R	77*130	0.35	10	14.2
		56000	E16R	77*155	0.35	8	16
		68000	F13R	90*131	0.35	7	18.8
82000	F16R	90*157	0.35	6	20.5		
100000	F17R	90*171	0.35	5	24		

WV(v)	Surge	cap	Case size		tanδ	ESR 20°C	Ripple
(V.DC)	(V.DC)	(μF)	code	ΦD*L(mm)		120Hz(mΩ)	Arms
160	200	3300	A12	36*121	0.25	101	5.18
		3900	C8R	51*75	0.25	85	5.33
		4700	C8R	51*75	0.25	71	5.85
		5600	C10R	51*96	0.25	59	7.03
		6800	C10R	51*96	0.25	49	7.77
		8200	C12R	51*115	0.25	40	9.14
		10000	D10R	64*96	0.25	33	10.36
		12000	CD10R	64*96	0.25	28	11.32
		15000	D13R	64*130	0.25	22	14.28
		18000	D13R	64*130	0.25	18	15.61
		22000	E13R	77*130	0.25	15	18.28
		27000	E13R	77*130	0.25	12	20.24
		33000	F13R	90*131	0.25	10	23.75
		39000	F16R	90*157	0.25	9	27.86



WV(v)	Surge	cap	Case size		tanδ	ESR 20°C	Ripple
			code	ΦD*L(mm)			
(V.DC)	(V.DC)	(μF)				120Hz(mΩ)	Arms
200	250	2200	A10	36*100	0.25	151	3.92
		2700	A12	36*121	0.25	123	4.7
		3300	C8R	51*75	0.25	101	4.92
		3900	C8R	51*75	0.25	85	5.33
		4700	C10R	51*96	0.25	71	6.44
		5600	C12R	51*115	0.25	59	7.55
		6800	C13R	51*130	0.25	49	8.77
		8200	D10R	64*96	0.25	40	9.4
		10000	D10R	64*96	0.25	33	10.36
		12000	E10R	77*96	0.25	28	12.06
		15000	E10R	77*96	0.25	22	14.43
		18000	E13R	77*130	0.25	18	16.5
		22000	E16R	77*155	0.25	15	19.61
		27000	F13R	90*131	0.25	12	21.51
		33000	F16R	90*157	0.25	10	25.53
300	350	10000	D18R	64*176	0.2	27	14.5
		22000	F18R	90*175	0.2	12	25

WV(v)	Surge	cap	Case size		tanδ	ESR 20°C	Ripple
			code	ΦD*L(mm)			
(V.DC)	(V.DC)	(μF)				120Hz(mΩ)	Arms
250	300	1500	A10	36*100	0.25	221	3.22
		1800	A10	36*100	0.25	184	3.52
		2200	C8R	51*75	0.25	151	4
		2700	C8R	51*75	0.25	123	4.44
		3300	C10R	51*96	0.25	101	5.4
		3900	C12R	51*115	0.25	85	6.29
		4700	D10R	64*96	0.25	71	7.1
		5600	D10R	64*96	0.25	59	7.77
		6300		64*115	0.25	53	8.6
		6800	D12R	64*115	0.25	49	9.14
		8200	D12R	64*115	0.25	40	10.03
		10000	D13R	64*130	0.25	33	11.66
		12000	E12R	77*115	0.25	28	12.88
		15000	E13R	77*130	0.25	22	15.1
		18000	E16R	77*155	0.25	18	17.69
		22000	F136R	90*157	0.25	15	20.91
		33000	F20R	90*196	0.25	10	30



WV(v)	Surge	cap	Case size		tanδ	ESR 20°C	Ripple
(V.DC)	(V.DC)	(μF)	code	ΦD*L(mm)		120Hz(mΩ)	Arms
350	400	390	A5	36*53	0.2	680	1.67
		470	A8	36*83	0.2	565	2.15
		560	A8	36*83	0.2	474	2.37
		680	A8	36*83	0.2	390	2.59
		820	A10	36*100	0.2	324	3.07
		1000	A10	36*100	0.2	265	3.41
		1200	C8R	51*75	0.2	221	3.81
		1500	C8R	51*75	0.2	177	4.26
		1800	C10R	51*96	0.2	147	5.14
		2200	C10R	51*96	0.2	121	5.7
		2700	C13R	51*130	0.2	98	7.14
		3300	C13R	51*130	0.2	80	7.92
		3900	D12R	64*115	0.2	68	9
		4700	D13R	64*130	0.2	56	10.33
		5600	E12R	77*115	0.2	47	11.36
		6800	E13R	77*130	0.2	39	13.1
		8200	F16R	77*155	0.2	32	15.43
		10000	F16R	90*157	0.2	27	18.13
		12000	F16R	90*157	0.2	22	20.02
		15000	F20R	90*196	0.2	18	24.5
18000	F24R	90*220	0.2	15	28.83		

WV(v)	Surge	cap	Case size		tanδ	ESR 20°C	Ripple
(V.DC)	(V.DC)	(μF)	code	ΦD*L(mm)		120Hz(mΩ)	Arms
400	450	330	A5	36*53	0.2	804	1.52
		390	A8	36*83	0.2	680	1.96
		470	A8	36*83	0.2	565	2.15
		560	A8	36*83	0.2	474	2.37
		680	A10	36*100	0.2	390	2.82
		820	A10	36*100	0.2	324	3.07
		1000	C8R	51*75	0.2	265	3.48
		1200	C8R	51*75	0.2	221	3.82
		1500	C10R	51*96	0.2	177	4.7
		1800	C10R	51*96	0.2	147	5.15
		2200	C13R	51*130	0.2	121	6.44
		2700	C10R	51*130	0.2	98	6.96
		3300	D12R	64*96	0.2	80	8.22
		3300	D11	64*110	0.2	80	8.34
		3900	D11	64*110	0.2	68	9.22
		3900	D12R	64*115	0.2	68	9.4
		4700	D13	64*130	0.2	56	10.44
		4700	E11	77*110	0.2	56	10.44
		5600	E12R	77*115	0.2	47	11.92
		5600	E13	77*130	0.2	47	12.1
		6800	E15R	77*145	0.2	39	14
		6800	E16R	77*155	0.2	39	14.06
		8200	E16R	77*155	0.2	32	16
		8200	F16R	90*157	0.2	32	16.43
		10000	F14	90*140	0.2	27	18
		10000	F16R	90*157	0.2	27	18.28
		12000	F20R	90*196	0.2	22	21.84
		15000	F20R	90*196	0.2	18	26.31
		15900	F21	90*210	0.2	17	28.1
		18000	F22	90*220	0.2	15	30.12



WV(v)	Surge	cap	Case size		tanδ	ESR 20°C	Ripple
			code	ΦD*L(mm)			
(V.DC)	(V.DC)	(μF)				120Hz(mΩ)	Arms
450	500	270	A5	36*53	0.2	983	1.37
		330	A8	36*63	0.2	804	1.82
		390	A8	36*83	0.2	680	1.96
		470	A8	36*83	0.2	565	2.15
		560	A8	36*83	0.2	474	2.55
		680	A9	36*83	0.2	390	2.81
		820	C8R	51*75	0.2	324	3.18
		1000	C8R	51*75	0.2	265	3.48
		1200	C10R	51*96	0.2	221	4.22
		1500	C12R	51*115	0.2	177	5.07
		1800	C13	51*130	0.2	147	5.85
		2200	C13	51*130	0.2	121	6.09
		2200	D10R	64*96	0.2	121	6.29
		2700	D12R	64*115	0.2	98	7.48
		3300	D12R	64*115	0.2	80	8.36
		3300	D13	64*130	0.2	80	8.66
		3900	D13	64*130	0.2	68	9.38
		3900	E12R	77*115	0.2	68	9.47
		4700	E13	77*130	0.2	56	10.88
		5600	E16R	77*155	0.2	47	12.8
		6800	F16R	90*157	0.2	39	15
		8200	F16R	90*157	0.2	32	16.5
		10000	F20R	90*196	0.2	27	20
		12000	F24R	90*236	0.2	22	23.61
15000	F21R	90*210	0.2	18	26		

WV(v)	Surge	cap	Case size		tanδ	ESR 20°C	Ripple
			code	ΦD*L(mm)			
(V.DC)	(V.DC)	(μF)				120Hz(mΩ)	Arms
500	550	270	A5	36*63	0.2	983	1.41
		330	A8	36*83	0.2	804	1.92
		390	A8	36*83	0.2	680	2
		470	A8	36*83	0.2	565	2.2
		560	A9	36*83	0.2	474	2.61
		680	A10	36*100	0.2	390	2.9
		820	C8R	51*75	0.2	324	3.2
		1000	C8R	51*75	0.2	265	3.6
		1200	C10R	51*96	0.2	221	4.3
		1500	C12R	51*115	0.2	177	5.1
		1800	C13	51*130	0.2	147	6
		2200	D10R	64*115	0.2	121	6.29
		2700	D13	64*130	0.2	98	7.8
		3300	E12R	77*115	0.2	80	8.8
		3900	E13	77*130	0.2	68	9.46
		4700	E16R	77*155	0.2	56	11
		5600	E16R	77*155	0.2	47	13
		6800	F16R	90*157	0.2	39	15.6
		8200	F20R	90*196	0.2	32	17
		10000	F20R	90*196	0.2	27	21

Note: Other Values are available on request. WEET is capable of doing custom service for you.



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PN Structure

WED	1C	223	M	03600530	100	B	R
Series	Rated Voltage	Capacitance	Capacitance Tolerance	Dimension	Pitch/Pins	Packing	Pb
	1.	2.	3.	4.	5.	6.	7.

1. Rated Voltage

Code	0J	1A	1C	1D	1E	1V	1G	1H	1J	1K	2A	2B
Voltage	6.3V	10V	16V	20V	25V	35V	40V	50V	63V	80V	100V	120V
Code	2C	2K	2D	2E	2F	2U	2V	2G	2X	2W	2H	2Y
Voltage	160V	180V	200V	250V	315V	330V	350V	400V	420V	450V	500V	550V

2. Capacitance

Code	0R1	R22	R33	R47	010	2R2	3R3	4R7	100	470	101	562	223	334
Capacitance (μF)	0.1	0.22	0.33	0.47	1	2.2	3.3	4.7	10	47	100	5600	22000	330000

3. Capacitance Tolerance

Code	K	L	M
Tolerance	±10%	±15%	±20%

4. Dimension

Code	00500095	00630085	03600530	07701550
Dimension (mm)	5x9.5	6.3x8.5	36x53	77x155

5. Pitch

Code	020	025	075	100	220	320
Pitch (mm)	2.0	2.5	7.5	10.0	22	32

6. Packing

Code	A	B
Packing	Ammo	Bulk

7. Pb

Code	L	R
Pb	Leaded	RoHS

