TEAPO

Radial Type Aluminium Electrolytic Capacitors

AK High Temperature、 Long Life Series

- Endurance: 125℃ 2000~5000hrs
- Recommended Applications :Applicable for Electronic Ballast,Lighting Ballast
- Corresponding product to RoHS

SPECIFICATIONS

Item	Characteristics	
Category Temperature Range	-40 ~ +125℃	-25 ~ +125℃
Rated Voltage Range	10~63VDC	160~450VDC
Rated Capacitance Range	47~ 4700μF	1~150μF
Capacitance Tolerance	± 20 % (120Hz , 20℃)	
Leakage Current (20℃)	I=0.01CV or 3(μA)whichever is greater.	I=0.1CV+40 uA (CV≦1000) I=0.04CV+100 uA (CV>1000)
	(After rated voltage applied for 2 minutes) I：Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)	

Dissipation Factor(MAX) (tan δ) (120Hz ,20℃)

WV	10	16	25	35	50	63	160~250	350~450
tan δ	0.19	0.16	0.14	0.12	0.14	0.14	0.20	0.24

When nominal capacitance is over 1000uF,tan δ shall be added 0.02 to the listed value with increase of every 1000uF.
Down Size tan δ added 0.03.

Low Temperature Stability Impedance Ratio (MAX)

WV / Z(120Hz)	10	16	25	35	50	63	160~250	350~450
Z-25℃ / Z+20℃	3	2	2	2	2	2	3	6
Z-40℃ / Z+20℃	6	4	4	4	4	3	—	—

Endurance

After applying rated voltage for 2000~5000hours at 125℃,the capacitors shall meet the following requirements.

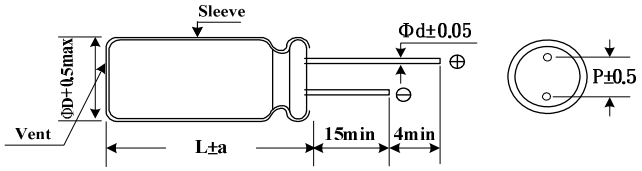
Rated Voltage Range	10~63VDC			160~450VDC
Capacitance Change	Within ± 30 % of initial value			Within ± 20 % of initial value
Dissipation Factor	≦300% of initial specified value			≦ 200% of the initial specified value
Leakage Current	≦initial specified value or less			≦ initial specified value
DΦ	8Φ	10Φ	≧13Φ	2000Hrs
Life	2000Hrs	3000Hrs	5000Hrs	

Shelf Life

After leaving capacitors under no load at 125℃ for 1000 hours.

Rated Voltage Range	10~63VDC	160~450VDC
Capacitance Change	Within ± 30 % of initial value	Within ± 20 % of initial value
Dissipation Factor	≦300% of initial specified value	≦ 200% of the initial specified value
Leakage Current	≦500% of initial specified value	≦ 500% of the initial specified value

Dimensions [mm]



ΦD	8	10	13	16	18
P	3.5	5.0	5.0	7.5	7.5
Φd	0.6	0.6	0.6	0.8	0.8
a	1.5	1.5	2.0	2.0	2.0

Multiplier for Ripple Current

Freq. (Hz)		120	1K	10K	50K~100K
10~63WV	CAP≦10	0.40	0.75	0.90	1.00
	10<CAP≦100	0.50	0.85	0.95	1.00
	100<CAP≦1000	0.60	0.88	0.96	1.00
	1000<CAP	0.75	0.90	0.98	1.00
160~450WV	CAP≦33	1.00	1.50	1.75	1.80
	CAP≧47	1.00	1.30	1.40	1.50

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■STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tan δ	Ripple current (mA/rms125℃) (100KHz)
10(13)	220	8x11	0.19	340
	330	10x12.5	0.19	500
	470	10x16	0.19	630
	1000	10x20	0.19	770
	2200	13x25	0.21	1250
	3300	16x25	0.23	1380
	4700	16x32	0.26	1450
16(20)	220	8x11	0.16	340
	330	10x12.5	0.16	500
	470	10x20	0.16	770
	1000	13x20	0.16	920
	2200	16x25	0.19	1380
	3300	16x32	0.21	1450
	4700	16x32	0.23	1720
25(32)	100	8x11	0.14	340
	220	10x12.5	0.14	500
	330	10x16	0.14	630
	470	10x20	0.14	770

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tan δ	Ripple current (mA/rms125℃) (100KHz)
25(32)	1000	13x25	0.14	1250
	2200	16x32	0.16	1450
35(44)	100	10x12.5	0.12	340
	220	10x16	0.12	500
	330	10x20	0.12	770
	470	13x20	0.12	920
	1000	16x25	0.12	1380
50(63)	47	8x11	0.14	245
	100	10x12.5	0.14	415
	220	10x20	0.14	491
	330	13x20	0.14	665
	470	13x25	0.14	995
	1000	16x32	0.14	1280
63(79)	47	8x11	0.14	245
	100	10x15	0.14	455
	220	13x20	0.14	665
	330	13x25	0.14	995
	470	16x25	0.14	1000

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tan δ	Ripple current (mA/rms125℃) (120Hz)
160(200)	3.3	8x11	0.20	28
	4.7	10x12.5	0.20	40
	10	10x16	0.20	60
	22	10 x 20	0.20	115
	33	10 x 25	0.20	154
	47	13 x 20	0.20	187
	68	13 x 25	0.20	245
	100	16 x 25	0.20	329
	150	16 x 32	0.20	434
200(250)	3.3	8x11	0.20	28
	4.7	10x12.5	0.20	40
	10	10 x 20	0.20	78
	22	10 x 25	0.20	126
	33	13 x 20	0.20	157
	47	13 x 25	0.20	204
	68	16 x 20	0.20	250
	100	16 x 25	0.20	329
250(300)	2.2	8x11	0.20	28
	3.3	10x12.5	0.20	32
	4.7	10x16	0.20	45
	10	10 x 20	0.20	78
	22	13 x 20	0.20	128
	33	13 x 25	0.20	171
	47	16 x 25	0.20	225
	68	16 x 32	0.20	292

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tan δ	Ripple current (mA/rms125℃) (120Hz)
350(400)	1.0	8x11	0.24	25
	2.2	10x12.5	0.24	32
	3.3	10x16	0.24	45
	4.7	10 x 20	0.24	53
	10	10 x 25	0.24	85
	22	13 x 25	0.24	139
	33	16 x 25	0.24	189
	47	16 x 32	0.24	243
400(450)	1.0	10x12.5	0.24	28
	2.2	10x16	0.24	35
	3.3	10x16	0.24	42
	4.7	10 x 20	0.24	53
	10	10 x 25	0.24	86
	22	13 x 30	0.24	142
	33	16 x 25	0.24	189
	47	16 x 32	0.24	243
450(500)	1.0	8x16	0.24	25
	2.2	10x16	0.24	32
	3.3	10x20	0.24	40
	4.7	10 x 25	0.24	58
	10	13 x 20	0.24	86
	22	16 x 25	0.24	154
	33	16 x 32	0.24	203