TEAPO

LEAD TYPE ALUMINUM ELECTROLYTIC CAPACITORS

SY Low impedance、Long life Series





■ Features: Low Impedance , high permissible ripple current at high frequency and long life than SC

SY ↑ Long Life

SC

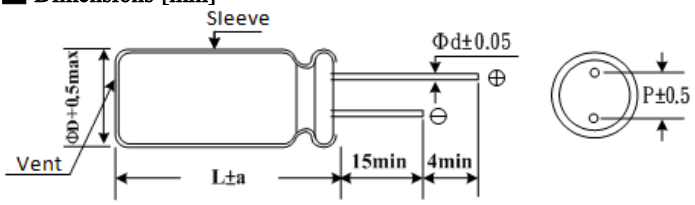
■ Recommended Applications :Used switching requlator applications in computers.
Especially for high frequency.

■ Corresponding product to RoHS

■ SPECIFICATIONS

Item	Characteristics
Category Temperature Range	-40 ~ +105℃
Rated Voltage Range	6.3 ~ 100VDC
Rated Capacitance Range	15 ~ 15000 μF
Capacitance Tolerance	± 20 % (120Hz , 20℃)
Leakage Current (20℃)	I=0.01CV or 3 μA whichever is greater. (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 6.3 10 16 25 35 50 63 100 tan δ 0.22 0.19 0.16 0.14 0.12 0.10 0.09 0.08 When nominal capacitance is over 1000 μF,tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.
Low Temperature Stability Impedance Ratio (MAX)	WV / Z(120Hz): 6.3 10 16 25 35 50 63 100 Z-25℃ / Z+20℃ 4 3 2 2 2 2 2 2 Z-40℃ / Z+20℃ 8 6 4 3 3 3 3 3
Endurance	After applying rated voltage with rated ripple current for 6000 hours at 105℃, the capacitors shall meet the following requirements. Capacitance change: Within ± 25% of initial value D.F. (tan δ): Not more than 200% of specified value Leakage current: Not more than the specified value DΦ: 5~6.3Φ	8~10Φx12.5	10x15~12Φ	13~18Φ life(hours): 3000 hrs	4000 hrs	5000 hrs	6000 hrs *If dimension is down size,Endurance will be less 1000 hours than standard.
Shelf Life	After placed at 105℃ without voltage applied for 1000 hours,the capacitors shall meet the same requirement as Endurance.

■ Dimensions [mm]



ΦD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
a	1.5	1.5	1.5	1.5	2.0	2.0	2.0

■ Multiplier for Ripple Current

Freq. (Hz)	120	1 K	10 K	100 K
15~ 180 μF	0.40	0.75	0.90	1.00
220 ~ 560 μF	0.50	0.85	0.94	1.00
680 ~1800 μF	0.60	0.87	0.95	1.00
2200 ~ 3900 μF	0.75	0.90	0.95	1.00
≧ 4700 μF	0.85	0.95	0.98	1.00

Product specifications in this catalog are subject to change without notice.Please refer to the website directory.

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■STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	Ripple current (mA/rms105℃) (100KHz)	Impedance (Ω,20℃) (100KHz)
6.3V (8)	150	5x11	210	0.580
	330	6.3x11	340	0.220
	470	6.3x11	510	0.160
	680	8x11	640	0.130
	820	10x12.5	865	0.080
	1000	8x15	840	0.087
	1200	8x20	1050	0.069
		10x16	1210	0.060
	1500	8x20	1050	0.069
		*10x16	1210	0.060
		10x20	1400	0.046
	1800	13x16	1450	0.049
	2200	*10x20	1400	0.046
		10x25	1650	0.042
	2700	10x30	1910	0.031
		16x16	1940	0.042
	3300	10x25	1650	0.042
		13x20	1900	0.035
	3900	13x25	2230	0.027
		18x16	2210	0.043
	4700	13x30	2650	0.024
	5600	13x35	2880	0.020
		16x20	2530	0.027
	6800	13x40	3350	0.017
		16x25	2930	0.021
		18x20	2860	0.026
	8200	16x32	3450	0.017
	10000	16x36	3610	0.015
		18x25	3140	0.017
	12000	18x32	4170	0.015
	15000	18x36	4220	0.014
10V (13)	100	5x11	210	0.580
	220	6.3x11	340	0.220
	470	8x11	640	0.130
	680	8x15	840	0.087
	820	10x12.5	865	0.080
	1000	8x20	1050	0.069
		10x16	1210	0.060
	1200	10x20	1400	0.046
	1500	10x25	1650	0.042
		13x16	1450	0.049
	2200	10x30	1910	0.031
		13x20	1900	0.042
		16x16	1940	0.042
	2700	18x16	2210	0.043
	3300	10x30	1910	0.031
		13x25	2230	0.027
	3900	13x30	2650	0.024
		16x20	2530	0.027
	4700	13x35	2880	0.020
	5600	13x40	3350	0.017
		16x25	2930	0.021
		18x20	2860	0.026
	6800	16x32	3450	0.017
		18x25	3140	0.019
	8200	16x36	3610	0.015
		18x32	4170	0.015
	10000	16x40	4080	0.013
		18x36	4220	0.014
	12000	18x40	4280	0.012
16V (20)	56	5x11	210	0.580
	100	6.3x11	250	0.230

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	Ripple current (mA/rms105℃) (100KHz)	Impedance (Ω,20℃) (100KHz)
16V(20)	120	6.3x11	340.00	0.220
	220	6.3x11	469.00	0.185
		8x11	582.00	0.150
	330	8x11	640.00	0.130
	470	*8x15	840.00	0.087
		8x20	950.00	0.078
		*10x12.5	865.00	0.080
		10x16	1210.00	0.060
	680	8x20	1050.00	0.069
		10x16	1210.00	0.060
	1000	8x20	1050.00	0.069
		*10x16	1210.00	0.060
		10x20	1400.00	0.046
		13x16	1450.00	0.049
	1200	10x25	1650.00	0.042
	1500	10x30	1910.00	0.031
		13x20	1900.00	0.035
		16x16	1940.00	0.042
	2200	13x25	2230.00	0.027
		18x16	2210.00	0.043
	2700	13x30	2650.00	0.024
		16x20	2530.00	0.027
	3300	13x35	2880.00	0.020
	3900	13x40	3350.00	0.017
		16x25	2930.00	0.021
		18x20	2860.00	0.026
	4700	16x32	3450.00	0.017
		18x25	3140.00	0.019
	5600	16x36	3610.00	0.015
		18x32	4170.00	0.015
	6800	16x40	4080.00	0.013
	8200	18x36	4220.00	0.014
	10000	18x40	4280.00	0.012
25V (32)	47	5x11	210.00	0.580
	100	6.3x11	340.00	0.220
	150	8x11	640.00	0.160
	220	8x11	640.00	0.130
	330	8x15	840.00	0.087
		10x12.5	865.00	0.080
	470	8x20	1050.00	0.069
		*10x12.5	1050.00	0.070
		10x16	1210.00	0.060
	680	10x20	1400.00	0.046
		13x16	1450.00	0.049
	820	10x25	1650.00	0.042
	1000	10x30	1910.00	0.031
		13x20	1900.00	0.035
		16x16	1940.00	0.042
	1200	18x16	2210.00	0.043
	1500	*13x20	1900.00	0.035
		13x25	2230.00	0.027
	1800	13x30	2650.00	0.024
		16x20	2530.00	0.027
	2200	13x35	2880.00	0.020
		18x20	2860.00	0.026
	2700	13x40	3350.00	0.017
		16x25	2930.00	0.021
	3300	16x32	3450.00	0.017
		18x25	3140.00	0.019
	3900	18x32	4170.00	0.015
	4700	18x36	4220.00	0.014
	5600	18x40	4280.00	0.012

" ＊ " is down size , Ripple Life is less 1000 hrs than standard

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■STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	Ripple current (mA/rms105℃) (100KHz)	Impedance (Ω,20℃) (100KHz)
35V (44)	33	5x11	210	0.580
	47	6.3x11	275	0.390
	56	6.3x11	340	0.220
	68	6.3x11	500	0.170
	82	6.3x11	540	0.160
	100	8x11	580	0.150
	150	8x11	640	0.130
	220	*8x15	840	0.087
		10x12.5	865	0.080
	270	8x20	1050	0.069
	330	*10x16	1210	0.060
		10x20	1400	0.046
	470	10x20	1400	0.046
		13x16	1450	0.049
	560	10x25	1650	0.042
	680	10x30	1910	0.031
		13x20	1900	0.035
		16x16	1940	0.042
	820	13x20	1900	0.035
	1000	13x25	2230	0.027
		18x16	2210	0.043
	1200	13x30	2650	0.024
		16x20	2530	0.027
	1500	13x35	2880	0.020
	1800	13x40	3350	0.017
		16x25	2930	0.021
		18x20	2860	0.026
	2200	16x32	3450	0.017
		18x25	3140	0.019
	2700	16x36	3610	0.015
		18x32	4170	0.015
	3300	16x40	4080	0.013
		18x36	4220	0.014
	3900	18x40	4280	0.012
50V (63)	22	5x11	180	0.700
	33	6.3x11	245	0.490
	47	6.3x11	300	0.520
	56	6.3x11	295	0.300
	100	8x11	555	0.170
	120	8x15	730	0.120
	150	10x12.5	760	0.120
	180	8x20	910	0.091
	220	10x16	1050	0.084
	270	10x20	1220	0.060
		13x16	1260	0.061
	330	*10x20	1400	0.058
		10x25	1440	0.055
	470	10x30	1690	0.043
		13x20	1660	0.045
		16x16	1690	0.055
	560	13x25	1950	0.034
		18x16	1930	0.054
	680	13x30	2310	0.030
	820	13x35	2510	0.025
		16x20	2210	0.034
	1000	13x40	2920	0.021
		16x25	2555	0.025
		18x20	2490	0.036
	1200	16x32	3010	0.022

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	Ripple current (mA/rms105℃) (100KHz)	Impedance (Ω,20℃) (100KHz)
50V (63)	1200	18x25	2740	0.026
	1500	16x36	3150	0.019
	1800	16x40	3710	0.016
		18x32	3635	0.021
	2200	18x36	3680	0.017
	2700	18x40	3800	0.014
63V (79)	15	5x11	55	2.3
	33	6.3x11	115	1.2
	56	8x12	232	0.63
	82	8x15	300	0.45
		10x12.5	288	0.43
	120	8x20	362	0.33
		10x16	357	0.31
	180	10x20	466	0.21
		13x16	466	0.23
	220	10x25	531	0.2
	270	10x30	663	0.15
		13x20	690	0.16
		16x16	795	0.14
	330	13x25	784	0.12
	390	18x16	920	0.12
	470	13x30	905	0.1
		16x20	1040	0.091
	560	13x35	1050	0.083
		16x25	1250	0.073
	680	13x40	1180	0.071
		18x20	1240	0.08
	820	16x32	1570	0.054
		18x25	1490	0.057
	1000	16x36	1790	0.045
		18x32	1630	0.047
	1200	16x40	2020	0.04
100V (125)	15	6.3x11	115	1.2
	27	8x12	232	0.63
	39	8x15	300	0.45
	47	10x12.5	288	0.43
	56	8x20	362	0.33
	68	10x16	357	0.31
	82	10x20	466	0.21
		13x16	466	0.23
	100	10x25	531	0.2
	120	10x30	663	0.15
		13x20	690	0.16
	150	16x16	795	0.14
	180	13x25	784	0.12
		18x16	920	0.12
	220	13x30	905	0.1
		16x20	1040	0.091
	270	13x35	1050	0.083
		16x25	1250	0.073
	330	13x40	1180	0.071
		18x20	1240	0.08
	390	16x32	1570	0.054
		18x25	1490	0.057
	470	16x36	1790	0.045
		18x32	1630	0.047
	560	16x40	2020	0.04
	680	18x36	1790	0.04
	820	18x40	2330	0.036

" ＊ " is down size , Ripple Life is less 1000 hrs than standard

Unikeyic Electronics

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TEAPO Electronic:

KSY228M016S1A5L25K KSG106M250S1K5H15K KSH107M063S1A5H12K SLG157M250S1A5Q25K
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