

# Aluminum Electrolytic Capacitors

## 105°C 2000~5000Hrs

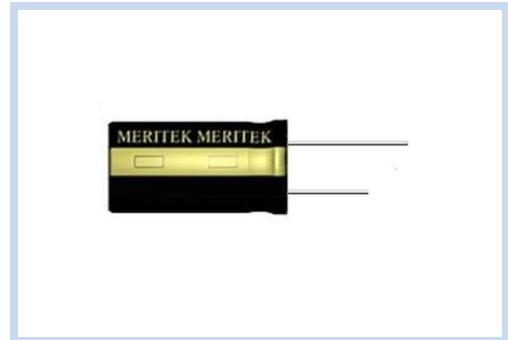
REZ Series

MERITEK

### FEATURE

- Operating Temperature: -55°C ~ +105°C
- Low Impedance and Long Life with Standing 5000 Hours Load Life.
- Suitable for Electronic Ballast, Adaptor and Switching Power
- Load Life

Dia	5~6.3mm	8mm	≥10mm
Life	2000hrs	3000hrs	5000hrs



### SPECIFICATIONS

Item	Characteristic							
Operation Temperature	-55°C ~ +105°C							
Rated Working Voltage	6.3 ~ 63VDC							
Capacitance Tolerance	±20% (M); 120Hz 20°C							
Leakage Current at 20°C	I ≤ 0.01CV or 3 ( μA) *Whichever is greater after 2 minutes					I: C: V:	Leakage Current ( μA) Capacitance ( μF) Working Voltage (V)	
Surge Voltage at 20°C	Rated Voltage (V)	6.3	10	16	25	35	50	63
	Surge Voltage (V)	8	13	20	32	44	63	79
Dissipation Factor-tan δ At 120Hz 20°C	Rated Voltage (V)	6.3	10	16	25	35	50	63
	tan δ max	0.22	0.19	0.16	0.14	0.12	0.10	0.09
Add 0.02 per 1000 μF for more than 1000 μF								
Low Temperature Stability	Rated Voltage (V)	6.3	10	16	25	35	50	63
	-25°C / +20°C	2	2	2	2	2	2	2
	-55°C / +20°C	3	3	3	3	3	3	3
Impedance ratio at 120Hz								
Load Life	Capacitance Change	≤ ±20% of initial value				After working hours application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. . (DC + ripple peak voltage ≤ rate working voltage)		
	Dissipation Factor	≤ 200% of initial specified value						
	Leakage current	≤ initial specified value				Dia	5~6.3mm	8mm
Shelf Life	Capacitance Change	≤ ±20% of initial value				Lif	2000hrs	3000hrs
	Dissipation Factor	≤ 150% of initial specified value				o	5000hrs	
	Leakage current	≤ 200% of initial specified value				At +105°C no voltage application after 1000 hours the capacitor shall meet the following limits. (with voltage treatment)		

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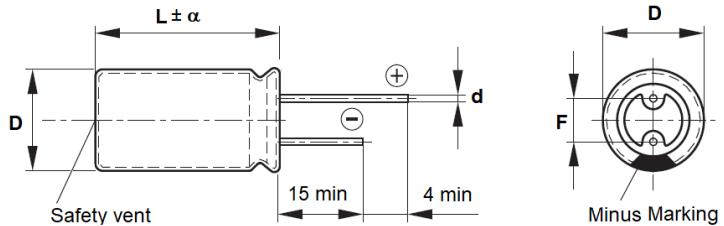
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### DIMENSION

Unit: mm							
D+0.5(max)	5	6.3	8	10	12.5	16	18
F±0.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d±0.05	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	1.5	1.5	1.5	1.5	2.0	2.0	2.0



### RIPPLE CURRENT COEFFICIENTS

Working Voltage	Frequency Coefficient					
	60Hz	120Hz	400Hz	1KHz	10KHz	≥ 100KHz
6.3~16V	0.45	0.60	0.83	0.94	0.98	1.00
25~35V	0.38	0.50	0.75	0.90	0.97	1.00
50~63V	0.36	0.46	0.70	0.88	0.94	1.00

Temperature Coefficient	
°C	Factor
65°C	2.12
75°C	1.92
85°C	1.69
95°C	1.50
105°C	1.00

### CASE SIZE AND MAX RIPPLE CURRENT

Capacitance	6.3VDC (0J)					10VDC (1A)				
	DxL	Impedance		RC	DxL	Impedance		RC		
μF	Code	(mm)	20°C(Ω)	-10°C(Ω)	A(rms)	(mm)	20°C(Ω)	-10°C(Ω)	A(rms)	
47	470	--	--	--	--	--	--	--	--	--
68	680	--	--	--	--	--	--	--	--	--
100	101	--	--	--	--	5x11	0.500	1.250	0.24	
220	221	6.3x11	0.308	0.769	0.39	6.3x11	0.249	0.623	0.41	
330	331	6.3x11	0.246	0.615	0.48	8x11	0.169	0.423	0.61	
470	471	8x11	0.178	0.446	0.70	8x11	0.139	0.346	0.73	
680	681	10x12.5	0.081	0.203	1.00	10x12.5	0.077	0.194	1.03	
1000	102	8x20	0.066	0.166	1.31	10x16	0.063	0.158	1.39	
1200	122	10x16	0.058	0.144	1.47	10x20	0.055	0.137	1.68	
1500	152	10x20	0.049	0.123	1.75	10x25	0.047	0.116	2.01	
2200	222	10x25	0.038	0.094	2.27	12.5x20	0.036	0.090	2.41	
3300	332	12.5x20	0.032	0.079	2.69	12.5x25	0.030	0.075	3.05	
4700	472	12.5x30	0.027	0.067	3.56	16x25	0.025	0.051	3.35	
6800	682	16x25	0.024	0.048	3.61	16x32	0.023	0.045	3.46	
10000	103	16x32	0.022	0.043	3.64	18x36	0.021	0.041	3.92	
15000	153	18x36	0.020	0.041	4.12	18x40	0.019	0.039	4.40	

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**CASE SIZE AND MAX RIPPLE CURRENT**

Capacitance		16VDC (1C)			
		DxL	Impedance		RC
µF	Code	(mm)	20°C(Ω)	-10°C(Ω)	A(rms)
47	470	5x11	0.568	1.421	0.17
68	680	5x11	0.500	1.250	0.21
100	101	6.3x11	0.367	0.918	0.29
220	221	8x11	0.190	0.474	0.52
330	331	10x12.5	0.114	0.285	0.75
470	471	10x12.5	0.093	0.233	0.90
680	681	10x16	0.074	0.184	1.20
1000	102	10x20	0.060	0.150	1.60
1200	122	10x25	0.052	0.130	1.94
1500	152	12.5x20	0.044	0.111	2.13
2200	222	12.5x25	0.034	0.086	2.75
3300	332	16x25	0.029	0.057	3.14
4700	472	16x32	0.024	0.048	3.24
6800	682	18x36	0.022	0.043	3.75
10000	103	18x40	0.019	0.039	4.20
15000	153	--	--	--	--

Capacitance		25VDC (1E)				35VDC (1V)			
		DxL	Impedance		RC	DxL	Impedance		RC
µF	Code	(mm)	20°C(Ω)	-10°C(Ω)	A(rms)	(mm)	20°C(Ω)	-10°C(Ω)	A(rms)
10	100	--	--	--	--	5x11	1.498	3.745	0.11
22	220	--	--	--	--	5x11	0.817	2.043	0.16
33	330	--	--	--	--	5x11	0.636	1.589	0.20
47	470	5x11	0.539	1.348	0.22	6.3x11	0.510	1.275	0.27
68	680	6.3x11	0.419	1.049	0.30	6.3x11	0.397	0.991	0.33
100	101	6.3x11	0.349	0.871	0.36	8x11	0.330	0.824	0.49
220	221	8x11	0.180	0.450	0.65	10x12.5	0.128	0.319	0.85
330	331	10x12.5	0.108	0.270	0.94	10x16	0.102	0.255	1.15
470	471	10x16	0.088	0.221	1.25	10x20	0.084	0.209	1.52
680	681	10x20	0.070	0.175	1.65	12.5x20	0.066	0.165	2.07
1000	102	12.5x20	0.057	0.143	2.27	12.5x25	0.054	0.135	2.77
1200	122	12.5x20	0.050	0.124	2.49	12.5x30	0.047	0.117	3.29
1500	152	12.5x25	0.042	0.105	2.94	16x25	0.040	0.079	3.32
2200	222	16x25	0.032	0.065	3.42	16x32	0.031	0.077	3.49
3300	332	16x32	0.027	0.054	3.66	18x36	0.026	0.064	4.17
4700	472	18x36	0.023	0.046	4.23	--	--	--	--

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**CASE SIZE AND MAX RIPPLE CURRENT**

Capacitance		50VDC (1H)				63VDC (1J)			
		DxL	Impedance		RC	DxL	Impedance		RC
µF	Code	(mm)	20°C(Ω)	-10°C(Ω)	A(rms)	(mm)	20°C(Ω)	-10°C(Ω)	A(rms)
10	100	5x11	1.331	3.992	0.13	5x11	1.331	3.992	0.13
22	220	5x11	0.726	2.177	0.19	6.3x11	0.726	1.814	0.22
33	330	6.3x11	0.564	1.411	0.26	6.3x15	0.564	1.411	0.30
47	470	6.3x11	0.453	1.132	0.31	8x11	0.453	1.132	0.38
68	680	8x11	0.352	0.880	0.46	10x12.5	0.264	0.660	0.54
100	101	8x20	0.220	0.549	0.71	10x16	0.220	0.549	0.73
220	221	10x16	0.113	0.283	1.09	10x25	0.113	0.283	1.33
330	331	10x20	0.091	0.227	1.47	12.5x20	0.091	0.227	1.66
470	471	12.5x20	0.074	0.186	1.99	12.5x25	0.074	0.186	2.19
680	681	12.5x25	0.059	0.147	2.63	16x25	0.059	0.117	2.63
1000	102	16x25	0.048	0.096	3.19	16x36	0.048	0.096	3.17
1200	122	16x32	0.042	0.083	3.29	18x36	0.042	0.083	3.48
1500	152	16x36	0.035	0.071	3.44	18x40	0.035	0.071	3.87
2200	222	18x36	0.027	0.055	4.20	--	--	--	--
3300	332	18x40	0.023	0.046	4.97	--	--	--	--

Note:

1. Max ripple current :A(rms) at 105°C. 100KHz
2. Max impedance(Ω) at 100KHz

# Aluminum Electrolytic Capacitors

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### PART NUMBERING SYSTEM

REZ    1H    101    M    H    200    A    D

No	Item	Code	Description				Series Reference
(1)	<b>Meritek Series</b>	REZ	Aluminum Electrolytic Capacitors				Low Impedance, up to 5000 Hrs +105°C
(2)	<b>Rated Voltage Code</b>	1H	50V:50V				DC working voltage, See Table Below
(3)	<b>Capacitance</b>	101	101:100μF				First two digit: significant, Third: Multiplier
(4)	<b>Tolerance</b>	M	M: ± 20%				-20% ~ +20%
(5)	<b>Case Diameter Code</b>	H	H: 8.0 mm				See Table Below
(6)	<b>Case Height</b>	200	200: 20 mm				Third digit denotes the first decimal place
(7)	<b>Package</b>	A	A: Tape & Ammo				R: Tape & Reel, Blank : Bulk
(8)	<b>Taping Pitch Code</b>	D	D: 3.5 mm				See Table Below, Blank: Bulk

Voltage	4	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	500
Code	0G	0J	1A	1C	1E	1V	1H	1J	2A	2C	2D	2E	2V	2G	2W	2H

Diameter	4	5	6.3	8	10	12.5	14.5	16	18	20	22	25
Code	D	E	F	H	J	K	U	L	M	N	P	Q

Pitch	1.5	2	2.5	3.5	5	7.5
Code	A	B	C	D	E	F

### LEGACY PART NUMBERING SYSTEM

REZ    50V    101    M    TA    0820

No	(1)	(2)	(3)	(4)	(5)	(6)
Item	Meritek Series	Rated Voltage	Capacitance	Tolerance	Package	Case Size

\*Specifications subject to change without notice.