Aluminum Electrolytic Capacitors

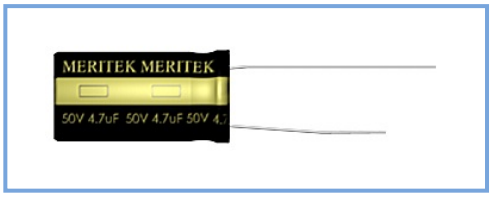
RoHS

REM Series
(105°C,7mmL,Low Impedance)

MERITEK

FEATURES

- High ripple current, low impedance series with 7mm height.



SPECIFICATIONS

Item	Characteristic						
Operating Temp Range	- 55 ~ +105°C						
Rated Working Voltage	6.3 ~ 50VDC						
Capacitance Tolerance (120Hz 20°C)	± 20%(M)						
Leakage Current (20°C)	I ≤ 0.01CV or 3 (μA) **∗Whichever is greater after 3 minutes**				**I : Leakage Current (μA)** **C : Rated Capacitance(μF)** **V : Working Voltage (V)**		
Surge Voltage (20°C)	**W.V.**	**6.3**	**10**	**16**	**25**	**35**	**50**
	S.V.	8	13	20	32	44	63
Dissipation Factor (tan δ) (120Hz 20°C)	**W.V.**	**6.3**	**10**	**16**	**25**	**35**	**50**
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10
Low Temperature Stability	Impedance ratio at 120Hz						
	Rated Voltage (V)	**6.3**	**10**	**16**	**25**	**35**	**50**
	-25°C / +20°C	3	3	3	2	2	2
	-55°C / +20°C	6	6	6	4	4	4
Load Life	**After 1000 hours application of W.V. and +105°C ripple current value** , the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rated working voltage)						
	Capacitance Change	≤ ±20% of initial.					
	Dissipation Factor	≤ 200% of initial specified value					
	Leakage Current	≤ initial specified value					
Shelf Life	At +105°C no voltage application after 1000 hours the capacitor shall meet the limits for load life characteristics. (with voltage treatment)						

PART NUMBER SYSTEM

REM 10V 151 M TA 8x7

Meritek Series

Rated Voltage

Capacitance
Express in micro farad(uF), First two digits are significant figures, Third digit denotes number of zeros. 'R' denotes decimal point for values less than 10uF

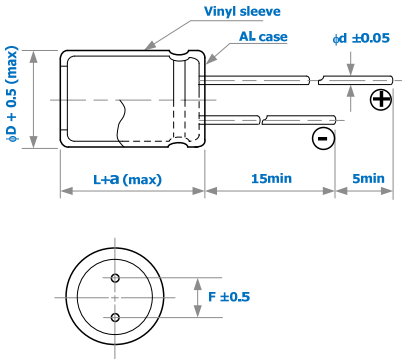
Tolerance
M - ±20%

Package

Code	TA	TR	Blank
	Tape & Ammo	Tape & Reel	

Case size – (D) Diameter x (L) Length in mm (Optional)

DIMENSIONS (mm)



ϕD	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45	0.45	0.45	0.50
a	1.0	1.0	1.0	1.0

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RIPPLE CURRENT COEFFICIENTS

Frequency(Hz)	60	120	400	1k	10k	100k
W.V.	Multiplier					
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
50V	0.36	0.46	0.70	0.88	0.94	1.00

Temperature(°C)	65	75	85	95	105
Multiplier	2.12	1.92	1.69	1.50	1.00

CASE SIZE & MAX RIPPLE CURRENT

Case size : DxL (mm)
Max. Impedance : Ω 100kHz
Max. ripple current : mA(rms) 105°C 100kHz

Cap. (uF)	V / Item	6.3				10			
			IMP.				IMP.		
		DxL	20°C	-10°C	R.C.	DxL	20°C	-10°C	R.C.
15					→	4x7	1.592	4.775	80
22		4x7	1.191	3.572	80	4x7	1.184	3.552	95
27		4x7	1.051	3.153	90	4x7	1.045	3.135	100
33		4x7	0.926	2.778	100	4x7	0.921	2.763	110
39		4x7	0.839	2.518	110	5x7	0.835	2.505	140
47		5x7	0.629	1.886	130	5x7	0.568	1.705	160
56		5x7	0.561	1.682	150	5x7	0.507	1.521	170
68		5x7	0.489	1.467	160	6.3x7	0.442	1.326	210
82		6.3x7	0.450	1.351	200	6.3x7	0.407	1.222	230
100		6.3x7	0.406	1.219	220	6.3x7	0.367	1.102	260
120		6.3x7	0.346	1.039	250	6.3x7	0.313	0.939	280
150		6.3x7	0.283	0.850	280	8x7	0.256	0.768	370
180		8x7	0.246	0.739	350				
220		8x7	0.210	0.630	390				

Cap. (uF)	V / Item	16				25			
			IMP.				IMP.		
		DxL	20°C	-10°C	R.C.	DxL	20°C	-10°C	R.C.
10		4x7	1.416	4.249	75	4x7	1.332	3.995	95
15		4x7	1.039	3.116	90	4x7	0.977	2.930	110
18		4x7	0.897	2.692	100	5x7	0.851	2.552	140
22		4x7	0.772	2.317	100	5x7	0.726	2.179	150
27		5x7	0.682	2.046	130	6.3x7	0.641	1.923	190
33		5x7	0.601	1.802	140	6.3x7	0.565	1.695	210
39		6.3x7	0.545	1.634	180	6.3x7	0.512	1.537	220
47		6.3x7	0.482	1.446	190	6.3x7	0.453	1.360	250
56		6.3x7	0.430	1.290	210	8x7	0.404	1.213	310
68		6.3x7	0.375	1.125	230	8x7	0.352	1.057	340
82		6.3x7	0.345	1.036	260				
100		6.3x7	0.312	0.935	280				

All blank voltage on sleeve marking is the same voltage as "→" point to.

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CASE SIZE & MAX RIPPLE CURRENT

Case size : DxL (mm)
Max. Impedance : Ω 100kHz
Max. ripple current : mA(rms) 105°C 100kHz

Cap. (uF)	V	35				50			
			IMP.				IMP.		
	Item	DxL	20°C	-10°C	R.C.	DxL	20°C	-10°C	R.C.
4.7		4x7	2.760	8.280	70	4x7	2.758	8.274	90
6.8		4x7	2.385	7.154	80	5x7	2.383	7.149	110
10		5x7	0.998	2.994	110	6.3x7	0.499	1.496	150
15		5x7	0.732	2.195	140	6.3x7	0.366	1.097	180
18		6.3x7	0.638	1.913	170	6.3x7	0.319	0.956	200
22		6.3x7	0.544	1.633	180	8x7	0.272	0.816	240
27		6.3x7	0.480	1.441	200	8x7	0.240	0.720	270
33		8x7	0.423	1.270	250	8x7	0.212	0.635	290
39		8x7	0.384	1.151	270				
47		8x7	0.340	1.019	300				

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