

Aluminum Electrolytic Capacitors

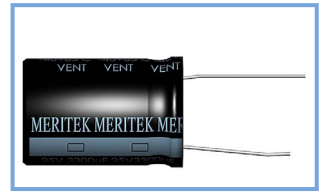


RBM Series
(Standard, Miniature Sized)

MERITEK

FEATURES

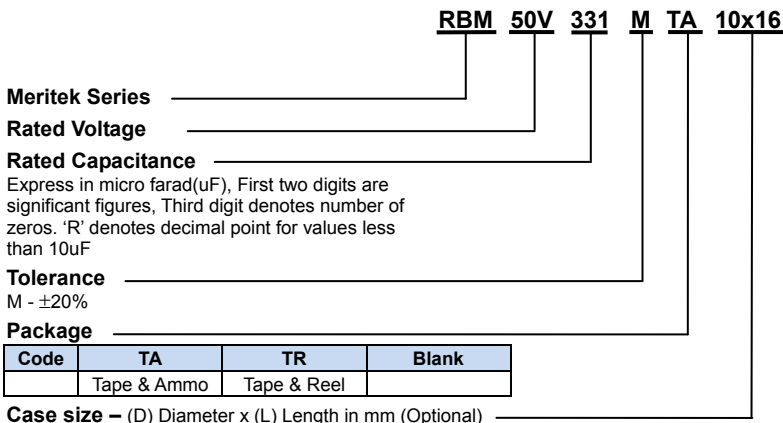
- One rank smaller case sizes than RB series
- RBM series has high value of CV for general purposes



SPECIFICATIONS

Item	Characteristic								
Operating Temp Range	- 40 ~ +85°C								
Rated Working Voltage	6.3 ~ 100VDC								
Capacitance Tolerance (120Hz 20°C)	± 20%(M)								
Leakage Current (20°C)	I ≤ 0.03CV or 4 (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	63	100
	S.V.	8	13	20	32	44	63	79	125
Dissipation Factor (tan δ) (120Hz 20°C)	add 0.02 per 1000uF for more than 1000uF								
	W.V.	6.3	10	16	25	35	50	63	100
	tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08
Low Temperature Stability	Impedance ratio at 120Hz								
	Rated Voltage (V)	6.3	10	16	25	35	50 ~ 100		
	-25°C / +20°C	5	4	3	2	2	2		
	-40°C / +20°C	12	10	8	5	4	3		
Load Life	After 1000 hours application of W.V. and +85°C ripple current value , the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rated working voltage)								
	Capacitance Change	≤ ±20% of initial value							
	Dissipation Factor	≤ 150% of initial specified value							
	Leakage Current	≤ initial specified value							
Shelf Life	At +85°C no voltage application after 1000 hours the capacitor shall meet the following limits. (with voltage treatment)								
	Capacitance Change	≤ ±20% of initial							
	Dissipation Factor	≤ 200% of initial specified value							
	Leakage Current	≤ 200% of initial specified value							

PART NUMBER SYSTEM



RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	65	75	85
Multiplier	1.25	1.14	1.00

Frequency(Hz)	60	120	1K	≥ 10k
W.V.	Multiplier			
6.3 ~ 25V	0.85	1.00	1.10	1.20
35 ~ 100V	0.80	1.00	1.15	1.25

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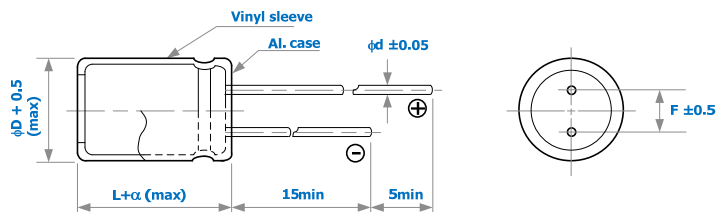


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DIMENSIONS (mm)

φD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	1.5	1.5	1.5	1.5	1.5	1.5	1.5



CASE SIZE & MAX RIPPLE CURRENT

Case size : DxL (mm)
Max. ripple current : mA(rms) 85°C 120Hz

Cap. (uF)	V Item	6.3		10		16	
		DxL	R.C.	DxL	R.C.	DxL	R.C.
100					→	5x11	180
220		5x11	230	5x11	250	6.3x11	300
330		6.3x11	310	6.3x11	340	8x11.5	440
470		6.3x11	370	6.3x11	410	8x11.5	520
1000		8x11.5	640	10x12.5	740	10x16	890
2200		10x20	1170	10x20	1280	12.5x20	1470
3300		10x20	1390	12.5x20	1600	12.5x25	1880
4700		12.5x20	1680	12.5x25	1980	16x25	2110
6800		12.5x25	2090	16x25	2240	16x31.5	2600
10000		16x25	2330	16x35.5	2860	18x35.5	3180
15000		16x35.5	2990	18x35.5	3320		
22000		18x40	3620				

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

Cap. (uF)	V Item	25		35		50	
		DxL	R.C.	DxL	R.C.	DxL	R.C.
22			→	5x11	100	5x11	110
33			→	5x11	120	5x11	130
47			→	5x11	150	6.3x11	180
100		6.3x11	220	6.3x11	240	8x11.5	300
220		8x11.5	380	8x11.5	420	10x12.5	470
330		8x11.5	460	10x12.5	550	10x16	630
470		10x12.5	580	10x16	720	10x20	830
1000		10x20	1040	12.5x20	1240	12.5x25	1430
2200		12.5x25	1710	16x25	1890	16x35.5	2290
3300		16x25	1990	16x35.5	2530	18x35.5	2790
4700		16x31.5	2440	18x35.5	2960		
6800		18x35.5	3040				

Cap. (uF)	V Item	63		100	
		DxL	R.C.	DxL	R.C.
10		5x11	75	6.3x11	95
22		5x11	110	6.3x11	140
33		6.3x11	150	8x11.5	200
47		6.3x11	180	10x12.5	250
100		10x12.5	330	10x20	450
220		10x16	540	12.5x25	790
330		10x20	730	12.5x25	960
470		12.5x20	930	16x25	1160
1000		16x25	1510	18x40	2220