

Aluminum Electrolytic Capacitors

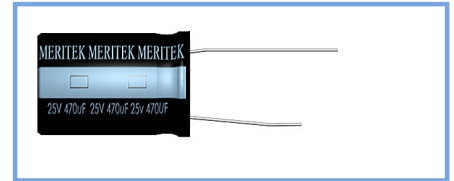


RFX Series
(High R.C., High Reliability)

MERITEK

FEATURES

- High ripple current, low E.S.R. and long life
- Suitable for electronic ballast, adaptor and switching power

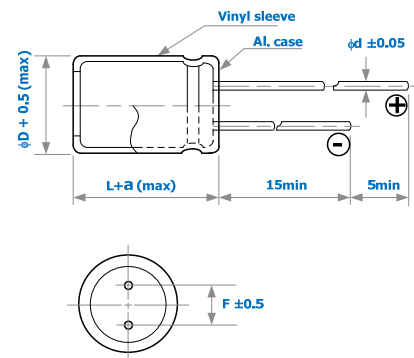
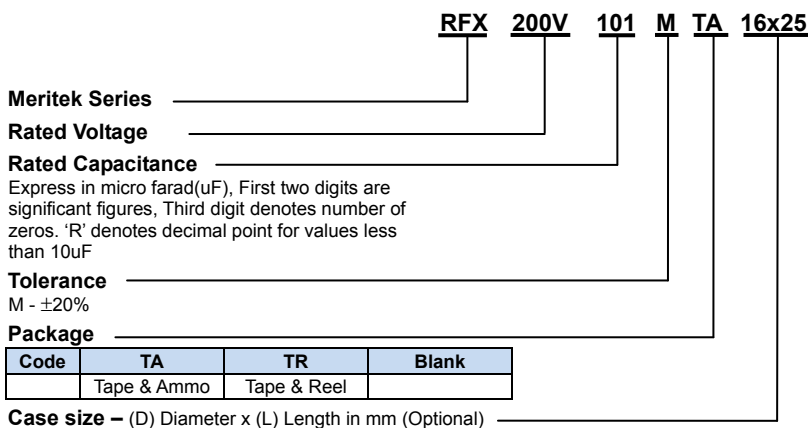


SPECIFICATIONS

Item	Characteristic						
Operating Temp Range	- 40 ~ +105°C				- 25 ~ +105°C		
Rated Working Voltage	160 ~ 400VDC				450VDC		
Capacitance Tolerance (120Hz 20°C)	± 20%(M)						
Leakage Current (20°C)	I ≤ 0.06CV+10 (uA) * After 2 minutes				I : Leakage Current (μA) C : Rated Capacitance(μF) V : Working Voltage (V)		
Surge Voltage (20°C)	W.V.	160	200	250	350	400	450
	S.V.	200	250	300	400	450	500
Dissipation Factor (tan δ) (120Hz 20°C)							
	W.V.	160	200	250	350	400	450
	tan δ	0.15	0.15	0.15	0.24	0.24	0.24
Low Temperature Stability	Impedance ratio at 120Hz						
	Rated Voltage (V)	160~250	350~400	450			
	-25°C / +20°C	3	6	6			
	-40°C / +20°C	4	6	-			
Load Life	After hours application (φD≤8mm 3000hrs, φD ≥10mm 5000hrs) 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 value.					
	Dissipation Factor	≤ 200% of initial specified value					
	Leakage Current	≤ initial specified value					
Shelf Life	At +105°C no voltage application after 1000 hours. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hrs and not more than 48 hrs before measurement. Cap& DF shall meet the limits for load life characteristics, leakage current ≤ 500% of the initial specified value.						

PART NUMBER SYSTEM

DIMENSIONS (mm)



φD	10	12.5	16	18
F	5.0	5.0	7.5	7.5
d	0.6	0.6	0.8	0.8
a	1.5	1.5	1.5	1.5

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RIPPLE CURRENT COEFFICIENTS

Frequency(Hz)		120	1k	10k	100k
W.V.		Multiplier			
160~450V	φD=10mm	0.25	0.61	0.88	1.00
	φD>10mm	0.35	0.66	0.89	1.00

Temperature(°C)	65	75	85	95	105
Multiplier	1.8	1.65	1.50	1.25	1.00

CASE SIZE & MAX RIPPLE CURRENT

Case size : DxL (mm)
 Max. impedance : Ω 20°C 100kHz
 Max. ripple current : mA(rms) 105°C 100kHz

Cap. (uF)	V	160			200			250		
		DxL	IMP	R.C.	DxL	IMP	R.C.	DxL	IMP	R.C.
10							→	10x20	3.18	240
22		10x20	1.47	350	10x20	1.47	350	12.5x20	1.74	380
33		10x20	1.15	430	12.5x20	1.15	460	12.5x25	1.35	510
47		12.5x20	0.92	550	12.5x20	0.92	550	12.5x25	1.08	610
68		12.5x25	0.71	730	12.5x25	0.71	730	16x25	0.84	730
100		16x25	0.59	890	16x25	0.59	890	16x31.5	0.70	980
150		16x31.5	0.41	1210	16x31.5	0.41	1210	18x31.5	0.49	1290
220		16x31.5	0.31	1460	18x35.5	0.31	1640	18x40	0.36	1730
330		18x35.5	0.25	2010						

Cap. (uF)	V	350			400			450		
		DxL	IMP	R.C.	DxL	IMP	R.C.	DxL	IMP	R.C.
3.3							→	10x20	4.47	150
4.7							→	12.5x20	3.77	190
10		10x20	2.94	220	10x20	2.94	290	12.5x25	2.95	300
22		12.5x20	1.60	340	12.5x25	1.60	460	16x25	1.61	450
33		12.5x25	1.25	460	12.5x25	1.25	620	16x31.5	1.25	620
47		16x25	1.00	560	16x25	1.00	740	18x31.5	1.01	780
68		16x31.5	0.78	740	16x31.5	0.78	990	18x35.5	0.78	990
100		18x35.5	0.65	1010	18x35.5	0.65	1350			

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