

Aluminum Electrolytic Capacitors



RF 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

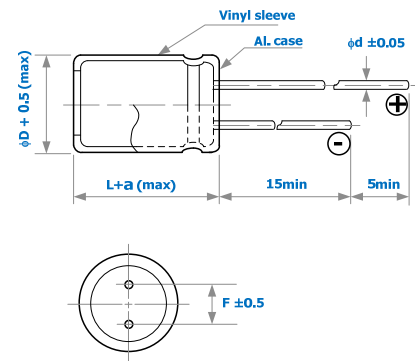
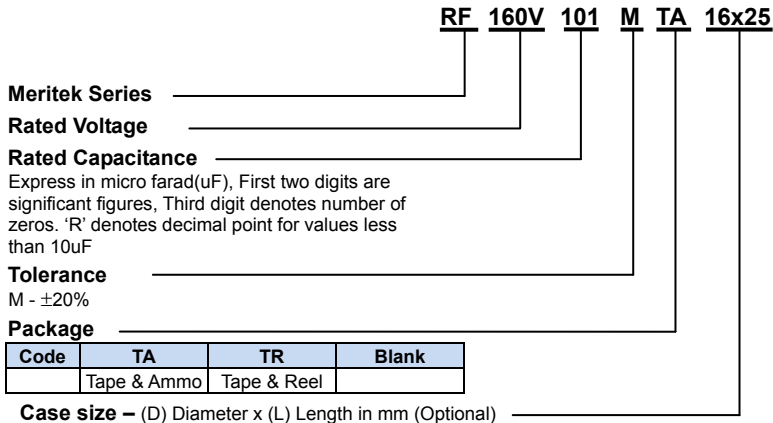


SPECIFICATIONS

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(μA) * After 2 minutes I : Leakage Current (μA) C : Rated Capacitance(μF) V : Working Voltage (V)					
Surge Voltage (20°C)	W.V.	160	200	250	400	450
	S.V.	200	250	300	450	500
Dissipation Factor (tan δ) (120Hz 20°C)	W.V.	160	200	250	400	450
	tan δ	0.15	0.15	0.15	0.24	0.24
Low Temperature Stability	Impedance ratio at 120Hz					
	Rated Voltage (V)	160~250		400	450	
	-25°C / +20°C	3		6	6	
	-40°C / +20°C	4		6	-	
Load Life	After hours (φD ≤ 8mm 2000hrs, φD ≥ 10mm 3000hrs) 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 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 capacitor shall meet the limits for load life characteristics. (with voltage treatment)					

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

Aluminum Electrolytic Capacitors



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

MERITEK

RIPPLE CURRENT COEFFICIENTS

Frequency(Hz)		120	1k	10k	100k
W.V.		Multiplier			
160~450	φD=10mm	0.25	0.61	0.88	1.0
	φD>10mm	0.35	0.66	0.89	1.0

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.
4.7								10x16	3.45	150
10		10x16	1.47	220	10x16	1.47	220	10x20	2.70	240
22		10x20	0.80	350	10x20	0.80	350	12.5x20	1.47	380
33		10x20	0.62	430	12.5x20	0.62	460	12.5x25	1.15	510
47		12.5x20	0.50	550	12.5x25	0.50	610	16x25	0.92	610
68		12.5x20	0.39	660	12.5x25	0.39	730	16x31.5	0.71	810
100		16x25	0.32	890	16x31.5	0.32	980	18x35.5	0.59	1110
220		16x35.5	0.17	1540	18x35.5	0.17	1640	18x40	0.31	1730

Cap. (uF)	V	400			450		
		DxL	IMP.	R.C.	DxL	IMP.	R.C.
2.2					10x16	4.94	110
3.3		10x20	2.60	170	10x20	4.11	150
4.7		10x25	2.20	220	12.5x20	3.47	190
10		12.5x25	1.72	340	12.5x25	2.72	300
22		16x25	0.94	510	16x31.5	1.48	500
33		16x31.5	0.73	690	16x31.5	1.15	620
47		16x31.5	0.59	820	18x31.5	0.92	780
68		16x31.5	0.46	990			
100		18x31.5	0.38	1280			
120		18x35.5	0.32	1480			
150		18x40	0.26	1740			
180		18x40	0.23	1910			