

Aluminum Electrolytic Capacitors

105°C 3000~5000Hrs

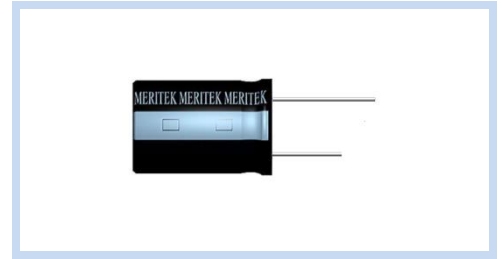
RFX Series

MERITEK

FEATURE

- Operating Temperature: -40°C ~ +105°C
- High Ripple Current, Low E.S.R. and Long Life
- Suitable for Electronic Ballast, Adaptor and Switching Power
- Load Life

Dia	≤8mm	≥10mm
Life	3000hrs	5000hrs



SPECIFICATIONS

Item	Characteristic						
Operation Temperature	-40 ~ +105°C			-25 ~ +105°C			
Rated Working Voltage	160 ~ 400VDC			450VDC			
Capacitance Tolerance	±20% (M); 120Hz 20°C						
Leakage Current at 20°C	I ≤ 0.06CV + 10 (μA) *Whichever is greater after 2 minutes			I:	Leakage Current (μA)		
				C:	Capacitance (μF)		
				V:	Working Voltage (V)		
Surge Voltage at 20°C	Rated Voltage (V)	160	200	250	350	400	450
	Surge Voltage (V)	200	250	300	400	450	500
Dissipation Factor-tan δ At 120Hz 20°C	Rated Voltage (V)	160	200	250	350	400	450
	tan δ max	0.15	0.15	0.15	0.24	0.24	0.24
Low Temperature Stability	Rated Voltage (V)	160 ~ 250		350 ~ 400		450	
	-25°C / +20°C	3		6		6	
	-40°C / +20°C	4		6		--	
	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 value					
	Leakage current	≤ initial specified value					
	Dia	≤8mm	≥10mm				
	Life	3000hrs	5000hrs				
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						

Aluminum Electrolytic Capacitors

105°C 3000~5000Hrs

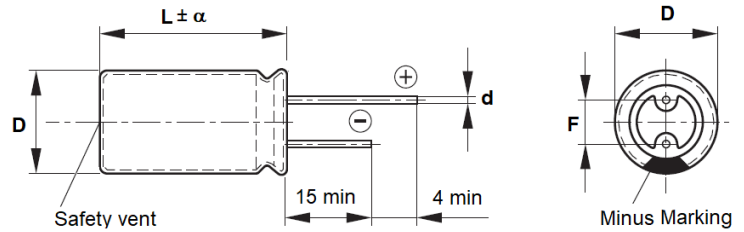
RFX Series

MERITEK

DIMENSION

Unit: mm

D+0.5(max)	10	12.5	16	18
F±0.5	5.0	5.0	7.5	7.5
d±0.05	0.6	0.6	0.8	0.8
α	1.5	2.0	2.0	2.0



RIPPLE CURRENT COEFFICIENTS

Working Voltage	Frequency Coefficient			
	120Hz	1KHz	10KHz	100KHz
160~450V	0.50	0.80	0.90	1.00

Temperature Coefficient	
°C	Factor
65°C	1.80
75°C	1.65
85°C	1.50
95°C	1.25
105°C	1.00

CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		160VDC (2C)			200VDC (2D)			250VDC (2E)		
		DxL	IMP	RC	DxL	IMP	RC	DxL	IMP	RC
μF	Code	(mm)	(Ω)	mA(rms)	(mm)	(Ω)	mA(rms)	(mm)	(Ω)	mA(rms)
10	100	--	--	--	→	→	→	10x20	3.18	240
22	220	10x20	1.47	350	10x20	1.47	350	12.5x20	1.74	380
33	330	10x20	1.15	430	12.5x20	1.15	460	12.5x25	1.35	510
47	470	12.5x20	0.92	550	12.5x20	0.92	550	12.5x25	1.08	610
68	680	12.5x25	0.71	730	12.5x25	0.71	730	16x25	0.84	730
100	101	16x25	0.59	890	16x25	0.59	890	16x32	0.70	980
150	151	16x32	0.41	1210	16x32	0.41	1210	18x32	0.49	1290
220	221	16x32	0.31	1460	18x36	0.31	1640	18x40	0.36	1730
330	331	18x36	0.25	2010	--	--	--	--	--	--

Capacitance		350VDC (2V)			400VDC (2G)			450VDC (2W)		
		DxL	IMP	RC	DxL	IMP	RC	DxL	IMP	RC
μF	Code	(mm)	(Ω)	mA(rms)	(mm)	(Ω)	mA(rms)	(mm)	(Ω)	mA(rms)
3.3	3R3	--	--	--	→	→	→	10x20	4.47	150
4.7	4R7	--	--	--	→	→	→	12.5x20	3.77	190
10	100	10x20	2.94	220	10x20	2.94	290	12.5x25	2.95	300
22	220	12.5x20	1.60	340	12.5x25	1.60	460	16x25	1.61	450
33	330	12.5x25	1.25	460	12.5x25	1.25	620	16x32	1.25	620
47	470	16x25	1.00	560	16x25	1.00	740	18x32	1.01	780
68	680	16x32	0.78	740	16x32	0.78	990	18x36	0.78	990
100	101	18x36	0.65	1010	18x36	0.65	1350	--	--	--

Note:

1. Max ripple current :mA(rms) at 105°C. 100KHz
2. All blank voltage on sleeve marking is the same voltage as "→"point to.
3. Max impedance(Ω) at 20°C 100KHz

Aluminum Electrolytic Capacitors

105°C 3000~5000Hrs

RFX Series

MERITEK

PART NUMBERING SYSTEM

RFX 2D 101 M L 250 A F
 (1) (2) (3) (4) (5) (6) (7) (8)

No	Item	Code	Description	Series Reference
(1)	Meritek Series	RFX	Aluminum Electrolytic Capacitors	High Ripple Current, 2000Hrs 105°C
(2)	Rated Voltage Code	2D	200V:200V	DC working voltage, See Table Below
(3)	Capacitance	101	101:100µF	First two digit: significant, Third: Multiplier
(4)	Tolerance	M	M: ± 20%	-20% ~ +20%
(5)	Case Diameter Code	L	L: 16 mm	See Table Below
(6)	Case Height	250	250: 25.0 mm	Third digit denotes the first decimal place
(7)	Package	A	A: Tape & Ammo	R: Tape & Reel, Blank : Bulk
(8)	Taping Pitch Code	F	F: 7.5 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

RFX 200V 101 M TA 1625
 (1) (2) (3) (4) (5) (6)

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

*Specifications subject to change without notice.